

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

Reserve
1.96
R31Fsmo

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

OCT 21 1970

CURRENT SNOW RECORDS

WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,

and
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

**SNOW PILLOW RECORDS
1970 WATER YEAR**

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES.

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P O Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||

Released by

A. B. LINFORD

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
Bozeman, Montana

In Cooperation with

J. A. ASLESON

DIRECTOR
Montana Agricultural Experiment Station

|||||

Report prepared by

P. E. FARNES, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
P.O. Box 98
Bozeman, Montana 59715



TABLE OF CONTENTS

	Page
MONTANA WATER SUPPLY OUTLOOK	1-2
SOIL MOISTURE DATA	3-6
RESERVOIR STORAGE DATA	7
SNOW PILLOW DATA	
Columbia Drainage	
Kootenai River	
Banfield Mountain	8
Garver Creek	9
Hawkins Lake	10
Poorman Creek	11
Flathead River	
Flattop Mountain	12
Clark Fork River	
Black Pine	13
Hoodoo Basin	14
North Fork Elk Creek	15
Bitterroot River	
Saddle Mountain	16
Twelvemile Creek	17
Twin Lakes	18
Missouri Drainage	
Jefferson River	
Rocker Peak	19
Madison River	
Lion Mountain	20
Madison Plateau	21
West Yellowstone	22
Gallatin River	
Bangtail	23
Bridger Bowl	24
Carrot Basin	25
Lick Creek	26
Maynard Creek	27
Shower Falls	28
Taylor Peaks	29
Missouri Main Stem	
Deadman Creek	30
Milk River	
Rocky Boy	31
Sun-Teton-Marias	
Mount Lockhart	32
Waldron	33
Judith River	
Spur Park	34
Upper Yellowstone River	
Fisher Creek	35
Northeast Entrance	36
MAP OF SNOW COURSES AND SOIL MOISTURE STATIONS	
COOPERATORS	Inside Back Cover

MONTANA FALL RESUME'
October 1, 1970

COLUMBIA RIVER BASIN

Valley precipitation has been above average since April 1 in all drainages with the exception of the Kootenai. There was a noticeable lack of precipitation during the main melt period which helped peak flows. Streamflow in general varied from 90 to 100 percent. Seasonal total in the Kootenai was near 70 percent average, reflecting the well below average accumulation of mountain snow pack. Temperatures remained below average until mid-May, then continued near or above average for the remainder of the growing season. The above average temperatures and adequate water supplies provided excellent crop growth.

Irrigation reservoir storage is low but no problems are anticipated if runoff is near average next season. Mountain soils are generally drier than normal and will reduce runoff next season unless they become saturated before snow accumulation.

MISSOURI RIVER BASIN

The total valley precipitation since April 1 has been above average in all areas with the exception of the northcentral and central portions of the state. June rains were light in most areas, minimizing the problem of moving the large snow pack downstream. The Gallatin recorded the largest peak flow of this century and consisted of snowmelt without rain. The large Madison peak flow was from snowmelt with some rain.

Most southern drainages recorded above average peak flows. Total runoff was well above average in southwestern Montana. Provisional data indicated flows of 150 percent average at the Missouri headwaters. Streams flowing east from the Continental Divide north of Helena had near to below average runoff. Above average temperatures during the main growing period resulted in good crop production, but also caused large irrigation withdrawals. Water supplies were generally adequate for all areas.

Storage in irrigation reservoirs is generally below average but no problems are anticipated unless snow packs are well below average this winter. Mountain soils are generally drier than normal.

YELLOWSTONE RIVER BASIN

The accumulation of valley precipitation since April 1 in the headwaters areas has been above average. Much damage from peak flows was averted by lack of rain during the main melt period and a cooler period just as snowmelt was nearing maximum proportions. Streamflow totals for the season were well above average with all streams producing 15 to 30 percent more than their normal amounts. The April through September volume passing by Billings in the Yellowstone River was about 130 percent average.

Mountain soils are somewhat drier than usual, but are not expected to have any significant effect on next year's runoff unless the winter snow pack is well below average.

SOIL MOISTURE

JULY 1, 1970

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	7/13	3.6	5.7	5.4
Murphy Lake R. S.	3000	48	22.6	7/01	19.2	22.6	20.7
Raven R. S.	3050	48	23.0	7/13	17.9	17.9	19.0

Flathead

Desert Mountain	5600	54	8.4	7/01	8.5	9.3	8.5
Marias Pass	5250	54	6.5	6/28	5.5	5.9	5.3

Clark Fork

Black Pine	7100	48	10.0	7/01	9.8	8.8	8.7
Seeley Lake R. S.	4030	48	11.9			-	-
Skalkaho Summit	7260	48	10.8	7/01	10.2	10.4	10.2

Bitterroot

Gibbons Pass	7100	48	7.1	6/26	6.6	6.6	6.4
Lolo Pass	5250	48	10.6	6/29	10.0	9.0	9.6

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	7/01	15.8	10.2	12.9
----------	------	----	------	------	------	------	------

Madison

West Yellowstone	6700	48	6.5	6/28	2.8	2.8	-
------------------	------	----	-----	------	-----	-----	---

Gallatin

Bridger Bowl	7250	48	17.0	6/30	16.4	16.7	16.2
College Site	4856	54	14.5	7/02	10.4	15.1	11.5
Lick Creek	6860	48	18.8	6/29	16.6	-	18.5
Twenty-One Mile	7150	48	10.0	6/28	9.0	9.3	8.6

Missouri Main Stem

Kings Hill	7420	48	11.8	6/26	10.8	11.0	10.8
Stemple Pass	6350	48	5.9	6/30	5.5	5.6	5.1

Milk

Beaver Creek	3950	48	20.9	6/29	12.6	-	-
Rocky Boy	3950	36	10.1	6/29	9.7	-	-

Yellowstone

Battle Ridge	6020	48	17.6	6/29	14.5	16.1	15.1
Northeast Entrance	7350	48	9.4	7/01	8.2	10.4	9.3

Table 1: Summary of data

Year	Month	Day	Time	Location	Activity	Notes
2018	Jan	1	08:00	Field	Survey	Clear weather
2018	Jan	2	09:00	Field	Survey	Clear weather
2018	Jan	3	10:00	Field	Survey	Clear weather
2018	Jan	4	11:00	Field	Survey	Clear weather
2018	Jan	5	12:00	Field	Survey	Clear weather
2018	Jan	6	13:00	Field	Survey	Clear weather
2018	Jan	7	14:00	Field	Survey	Clear weather
2018	Jan	8	15:00	Field	Survey	Clear weather
2018	Jan	9	16:00	Field	Survey	Clear weather
2018	Jan	10	17:00	Field	Survey	Clear weather
2018	Jan	11	18:00	Field	Survey	Clear weather
2018	Jan	12	19:00	Field	Survey	Clear weather
2018	Jan	13	20:00	Field	Survey	Clear weather
2018	Jan	14	21:00	Field	Survey	Clear weather
2018	Jan	15	22:00	Field	Survey	Clear weather
2018	Jan	16	23:00	Field	Survey	Clear weather
2018	Jan	17	00:00	Field	Survey	Clear weather
2018	Jan	18	01:00	Field	Survey	Clear weather
2018	Jan	19	02:00	Field	Survey	Clear weather
2018	Jan	20	03:00	Field	Survey	Clear weather
2018	Jan	21	04:00	Field	Survey	Clear weather
2018	Jan	22	05:00	Field	Survey	Clear weather
2018	Jan	23	06:00	Field	Survey	Clear weather
2018	Jan	24	07:00	Field	Survey	Clear weather
2018	Jan	25	08:00	Field	Survey	Clear weather
2018	Jan	26	09:00	Field	Survey	Clear weather
2018	Jan	27	10:00	Field	Survey	Clear weather
2018	Jan	28	11:00	Field	Survey	Clear weather
2018	Jan	29	12:00	Field	Survey	Clear weather
2018	Jan	30	13:00	Field	Survey	Clear weather
2018	Jan	31	14:00	Field	Survey	Clear weather

Table 2: Summary of data

Year	Month	Day	Time	Location	Activity	Notes
2018	Feb	1	08:00	Field	Survey	Clear weather
2018	Feb	2	09:00	Field	Survey	Clear weather
2018	Feb	3	10:00	Field	Survey	Clear weather
2018	Feb	4	11:00	Field	Survey	Clear weather
2018	Feb	5	12:00	Field	Survey	Clear weather
2018	Feb	6	13:00	Field	Survey	Clear weather
2018	Feb	7	14:00	Field	Survey	Clear weather
2018	Feb	8	15:00	Field	Survey	Clear weather
2018	Feb	9	16:00	Field	Survey	Clear weather
2018	Feb	10	17:00	Field	Survey	Clear weather
2018	Feb	11	18:00	Field	Survey	Clear weather
2018	Feb	12	19:00	Field	Survey	Clear weather
2018	Feb	13	20:00	Field	Survey	Clear weather
2018	Feb	14	21:00	Field	Survey	Clear weather
2018	Feb	15	22:00	Field	Survey	Clear weather
2018	Feb	16	23:00	Field	Survey	Clear weather
2018	Feb	17	00:00	Field	Survey	Clear weather
2018	Feb	18	01:00	Field	Survey	Clear weather
2018	Feb	19	02:00	Field	Survey	Clear weather
2018	Feb	20	03:00	Field	Survey	Clear weather
2018	Feb	21	04:00	Field	Survey	Clear weather
2018	Feb	22	05:00	Field	Survey	Clear weather
2018	Feb	23	06:00	Field	Survey	Clear weather
2018	Feb	24	07:00	Field	Survey	Clear weather
2018	Feb	25	08:00	Field	Survey	Clear weather
2018	Feb	26	09:00	Field	Survey	Clear weather
2018	Feb	27	10:00	Field	Survey	Clear weather
2018	Feb	28	11:00	Field	Survey	Clear weather
2018	Feb	29	12:00	Field	Survey	Clear weather
2018	Feb	30	13:00	Field	Survey	Clear weather
2018	Feb	31	14:00	Field	Survey	Clear weather

SOIL MOISTURE

AUGUST 1, 1970

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
COLUMBIA RIVER BASIN							
Kootenai							
Baree Trail	3800	48	7.5			3.1	3.8
Murphy Lake R. S.	3000	48	22.6	8/03	18.8	19.2	18.9
Raven R. S.	3050	48	23.0			18.1	18.2
Flathead							
Desert Mountain	5600	54	8.4	8/04	7.9	6.8	6.3
Marias Pass	5250	54	6.5	7/29	4.4	4.3	3.8
Clark Fork							
Black Pine	7100	48	10.0	7/30	9.2	8.8	8.6
Seeley Lake R. S.	4030	48	11.9			7.7	7.6
Skalkaho Summit	7260	48	10.8	7/30	10.6	9.4	10.0
Bitterroot							
Gibbons Pass	7100	48	7.1	7/31	5.7	4.9	4.6
Lolo Pass	5250	48	10.6	7/30	6.5	4.9	5.8
MISSOURI RIVER BASIN							
Beaverhead							
Lakeview	6700	48	15.3	7/31	9.3	6.3	8.2
Madison							
West Yellowstone	6700	48	6.5	7/29	2.1	-	-
Gallatin							
Bridger Bowl	7250	48	17.0			14.8	15.5
College Site	4856	54	14.5	7/30	11.0	11.1	8.3
Lick Creek	6860	48	18.8	8/19	15.4	16.0	15.5
Twenty-One Mile	7150	48	10.0	7/29	7.2	-	5.1
Missouri Main Stem							
Kings Hill	7420	48	11.8	7/31	8.9	9.4	9.2
Stemple Pass	6350	48	5.9	7/31	4.2	4.6	4.2
Milk							
Beaver Creek	3950	48	20.9	7/31	7.1	13.4	-
Rocky Boy	3950	36	10.1	7/31	7.9	8.4	-
Yellowstone							
Battle Ridge	6020	48	17.6			12.8	11.2
Northeast Entrance	7350	48	9.4	7/29	6.3	7.4	6.9

SOIL MOISTURE

SEPTEMBER 1, 1970

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5			2.3	4.6
Murphy Lake R. S.	3000	48	22.6	9/01	18.2	18.3	19.0
Raven R. S.	3050	48	23.0			18.1	17.4

Flathead

Desert Mountain	5600	54	8.4	9/01	4.8	4.7	5.2
Marias Pass	5250	54	6.5	8/28	3.7	3.2	3.5

Clark Fork

Black Pine	7100	48	10.0	8/28	8.0	7.8	8.2
Seeley Lake R. S.	4030	48	11.9	9/08	3.9	-	-
Skalkaho Summit	7260	48	10.8	8/28	10.0	8.6	9.7

Bitterroot

Gibbons Pass	7100	48	7.1	8/27	2.9	2.5	4.3
Lolo Pass	5250	48	10.6	8/28	4.0	-	4.6

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	8/31	7.8	5.8	6.8
----------	------	----	------	------	-----	-----	-----

Madison

West Yellowstone	6700	48	6.5	8/30	1.2	1.2	-
------------------	------	----	-----	------	-----	-----	---

Gallatin

Bridger Bowl	7250	48	17.0	9/09	16.5	15.9	16.0
College Site	4856	54	14.5	8/28	9.5	12.3	7.8
Lick Creek	6860	48	18.8	9/10	18.8	14.8	16.0
Twenty-One Mile	7150	48	10.0	8/30	3.2	3.4	3.7

Missouri Main Stem

Kings Hill	7420	48	11.8	8/28	6.1	7.2	8.1
Stemple Pass	6350	48	5.9	9/01	3.6	3.0	4.0

Milk

Beaver Creek	3950	48	20.9	8/31	6.0	7.9	-
Rocky Boy	3950	36	10.1	8/31	6.7	6.5	-

Yellowstone

Battle Ridge	6020	48	17.6			9.2	9.5
Northeast Entrance	7350	48	9.4	8/26	5.0	5.1	5.8

SOIL MOISTURE

OCTOBER 1, 1970

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5			-	5.2
Murphy Lake R. S.	3000	48	22.6			18.8	18.6
Raven R. S.	3050	48	23.0			18.6	18.4

Flathead

Desert Mountain	5600	54	8.4			6.3	5.8
Marias Pass	5250	54	6.5	9/27	3.9	3.6	3.9

Clark Fork

Black Pine	7100	48	10.0	9/28	8.2	7.5	7.9
Seeley Lake R. S.	4030	48	11.9	10/1	3.8	4.0	4.5
Skalkaho Summit	7260	48	10.8	9/28	10.4	10.2	10.3

Bitterroot

Gibbons Pass	7100	48	7.1	9/29	5.3	2.4	4.6
Lolo Pass	5250	48	10.6	9/28	4.2	3.2	5.0

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	10/2	7.1	-	5.8
----------	------	----	------	------	-----	---	-----

Madison

West Yellowstone	6700	48	6.5			1.5	2.4
------------------	------	----	-----	--	--	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	10/1	16.4	16.3	15.6
College Site	4856	54	14.5	10/2	10.1	9.6	7.7
Lick Creek	6860	48	18.8	9/30	18.6	15.1	16.9
Twenty-One Mile	7150	48	10.0	10/2	5.2	3.6	3.8

Missouri Main Stem

Kings Hill	7420	48	11.8	9/25	6.7	5.3	7.5
Stemple Pass	6350	48	5.9	9/30	3.5	3.0	3.8

Milk

Beaver Creek	3950	48	20.9	10/2	6.6	7.0	-
Rocky Boy	3950	36	10.1	10/2	7.9	6.6	-

Yellowstone

Battle Ridge	6020	48	17.6	10/1	15.3	9.2	10.2
Northeast Entrance	7350	48	9.4	10/2	6.4	4.0	6.4

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average

COLUMBIA RIVER BASIN

Flathead	Hungry Horse	3,428.0	2,931.0	2,726.0	3,331.0
	Flathead Lake	1,791.0	1,694.0	1,700.0	1,699.0
	Camas (4)	45.2	17.8	16.7	24.9
	Mission Valley (8)	100.3	21.0	12.6	17.6
Clark Fork	Georgetown Lake	31.0	30.1	29.2	26.7
	Nevada Creek	12.6	4.1	-	6.5
	Noxon Rapids	334.6	328.8	331.0	321.3
Bitterroot	Como	34.9	0.4	0.2	1.9
	Painted Rocks	31.7	29.5	29.0	25.2

MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	136.7	127.5	103.0
	Lima	84.0	39.2	41.0	17.3
Ruby	Ruby	38.8	9.5	8.2	8.6
Madison	Hebgen Lake	377.5	326.4	326.4	299.8
	Ennis Lake	41.0	37.4	39.5	36.5
Gallatin	Middle Creek	8.0	3.7	3.5	2.4
Missouri	Canyon Ferry	2,043.0	1,754.0	1,734.0	1,749.0
	Hauser & Helena	61.9	52.0	29.1	58.6
	Lake Helena	10.4	7.0	10.4	9.5
	Holter Lake	81.9	73.9	74.2	75.7
	Smith River	10.7	4.2	3.3	5.2
	Durand	7.0	2.8	1.7	3.3
	Martinsdale	23.1	10.2	5.2	6.6
	Deadman's Basin	72.2	32.3	18.6	33.9
	Fort Peck	19,410.0	17,600.0	17,530.0	11,850.0
	Gibson	105.0	20.1	9.4	35.5
	Willow Creek	32.3	19.7	16.5	19.0
	Pishkun	32.0	11.9	16.0	17.1
	Lower Two Medicine	16.6	-	0.5	3.5
Marias	Four Horns	19.2	-	12.9	11.0
	Swift	30.0	18.5	14.8	13.0
	Lake Frances	112.0	90.5	80.6	83.6
Milk	Tiber	1,347.0	579.0	605.4	689.6
	Fresno	127.2	73.0	81.5	67.8
	Nelson	66.8	-	45.5	44.1
	Lake Sherburne	66.1	-	3.2	7.0
Yellowstone	Mystic Lake	20.8	19.1	19.5	20.4
	Tongue River	68.0	-	-	20.6
	Cooney	27.5	11.1	9.1	11.0
Big Horn	Big Horn Lake	1,356.0	1,051.0	867.1	-

Category	Sub-category	Item	Value	Unit	Notes
----------	--------------	------	-------	------	-------

Section 1: General Information

Item 1	Category 1	Sub-category 1	Item 1	Value 1	Unit 1	Notes 1
Item 2	Category 2	Sub-category 2	Item 2	Value 2	Unit 2	Notes 2
Item 3	Category 3	Sub-category 3	Item 3	Value 3	Unit 3	Notes 3
Item 4	Category 4	Sub-category 4	Item 4	Value 4	Unit 4	Notes 4
Item 5	Category 5	Sub-category 5	Item 5	Value 5	Unit 5	Notes 5

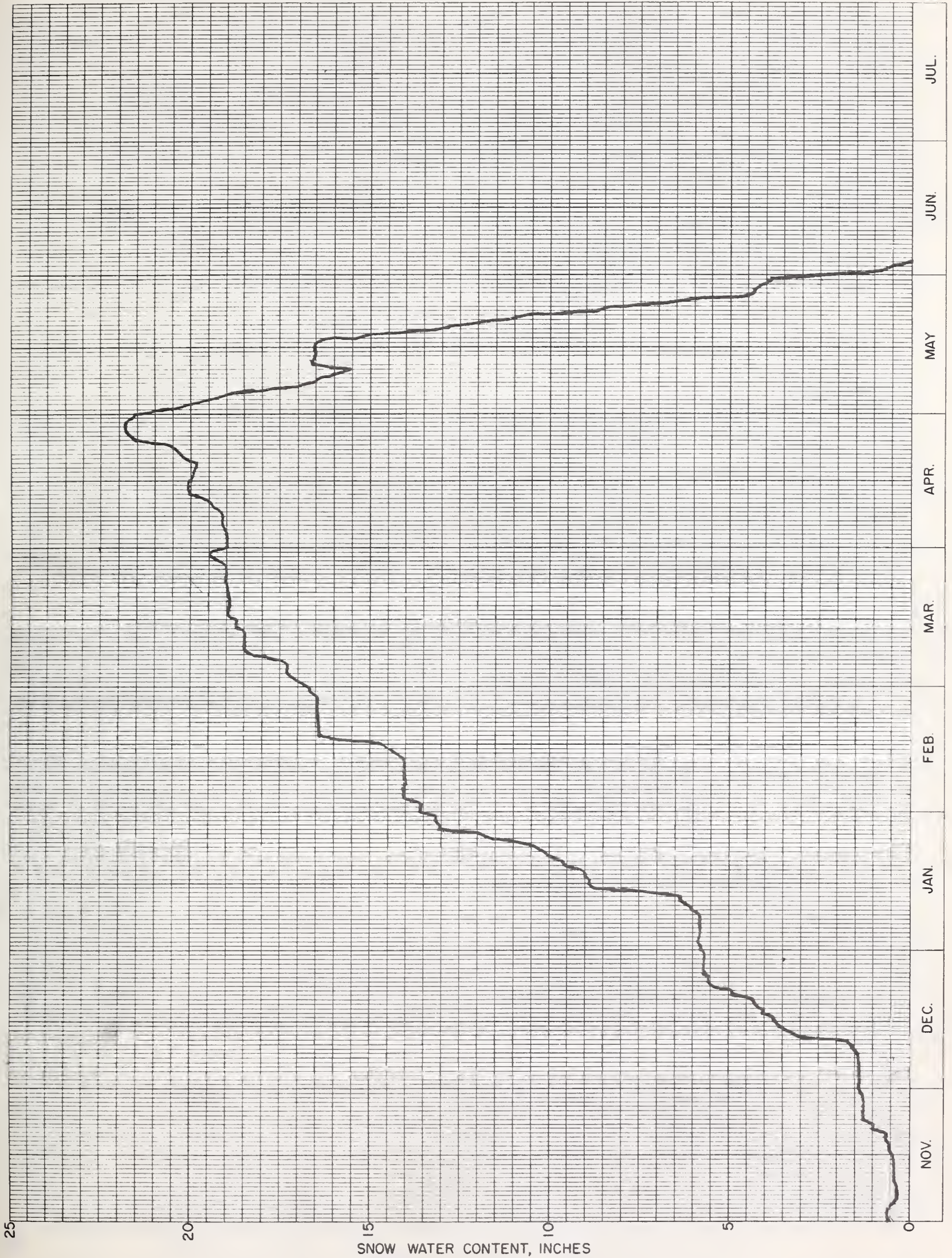
Section 2: Detailed Data

Item 6	Category 6	Sub-category 6	Item 6	Value 6	Unit 6	Notes 6
Item 7	Category 7	Sub-category 7	Item 7	Value 7	Unit 7	Notes 7
Item 8	Category 8	Sub-category 8	Item 8	Value 8	Unit 8	Notes 8
Item 9	Category 9	Sub-category 9	Item 9	Value 9	Unit 9	Notes 9
Item 10	Category 10	Sub-category 10	Item 10	Value 10	Unit 10	Notes 10
Item 11	Category 11	Sub-category 11	Item 11	Value 11	Unit 11	Notes 11
Item 12	Category 12	Sub-category 12	Item 12	Value 12	Unit 12	Notes 12
Item 13	Category 13	Sub-category 13	Item 13	Value 13	Unit 13	Notes 13
Item 14	Category 14	Sub-category 14	Item 14	Value 14	Unit 14	Notes 14
Item 15	Category 15	Sub-category 15	Item 15	Value 15	Unit 15	Notes 15
Item 16	Category 16	Sub-category 16	Item 16	Value 16	Unit 16	Notes 16
Item 17	Category 17	Sub-category 17	Item 17	Value 17	Unit 17	Notes 17
Item 18	Category 18	Sub-category 18	Item 18	Value 18	Unit 18	Notes 18
Item 19	Category 19	Sub-category 19	Item 19	Value 19	Unit 19	Notes 19
Item 20	Category 20	Sub-category 20	Item 20	Value 20	Unit 20	Notes 20

SNOW PILLOW DATA
WATER YEAR 1970

BANFIELD MOUNTAIN

No. 15A08 Elev. 5600 Drainage. Kootenai



100

100

100

100

100



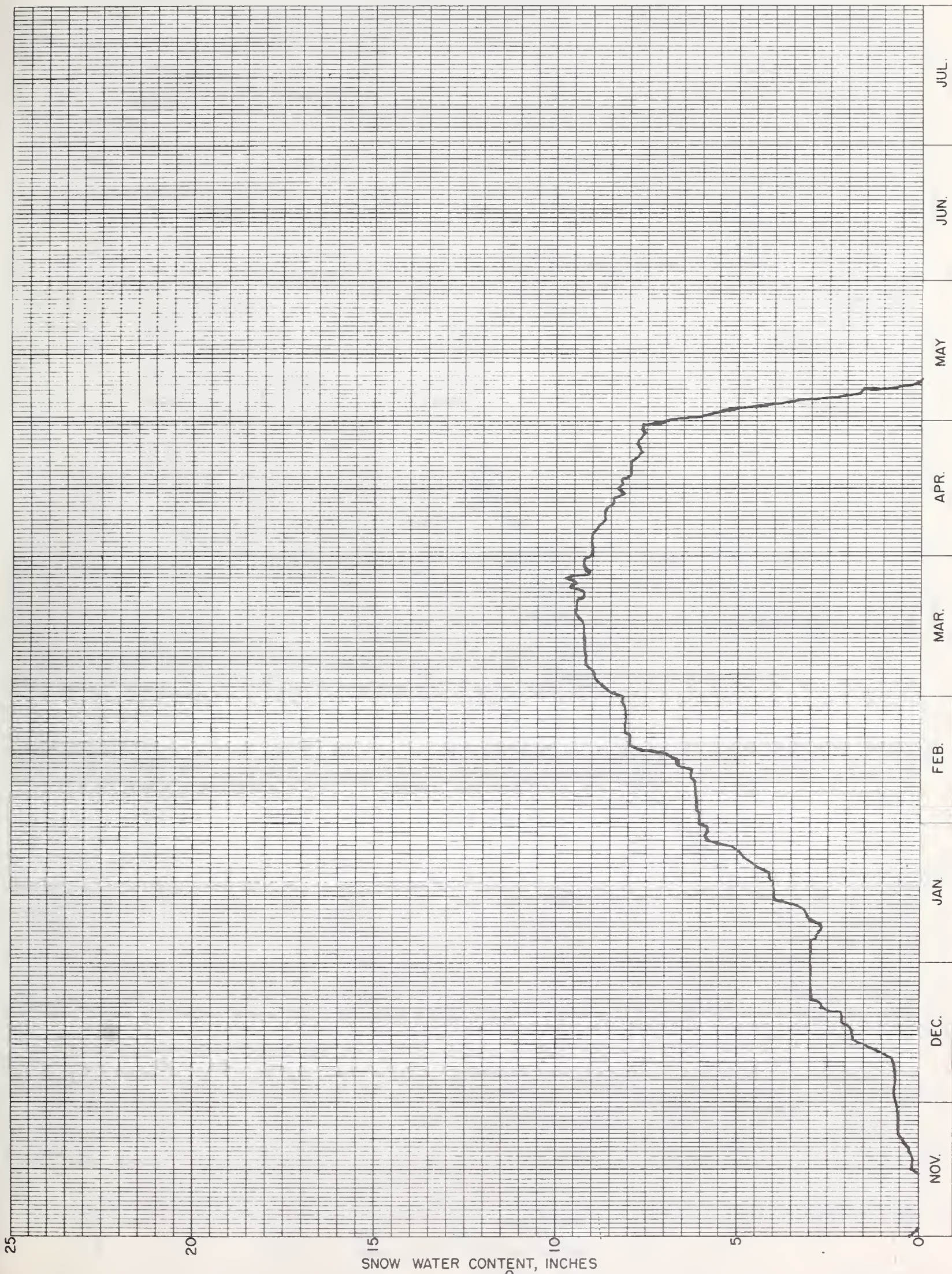
SNOW PILLOW DATA
WATER YEAR 1970

GARVER CREEK

No. 15A05

Elev. 4250

Drainage. Kootenai



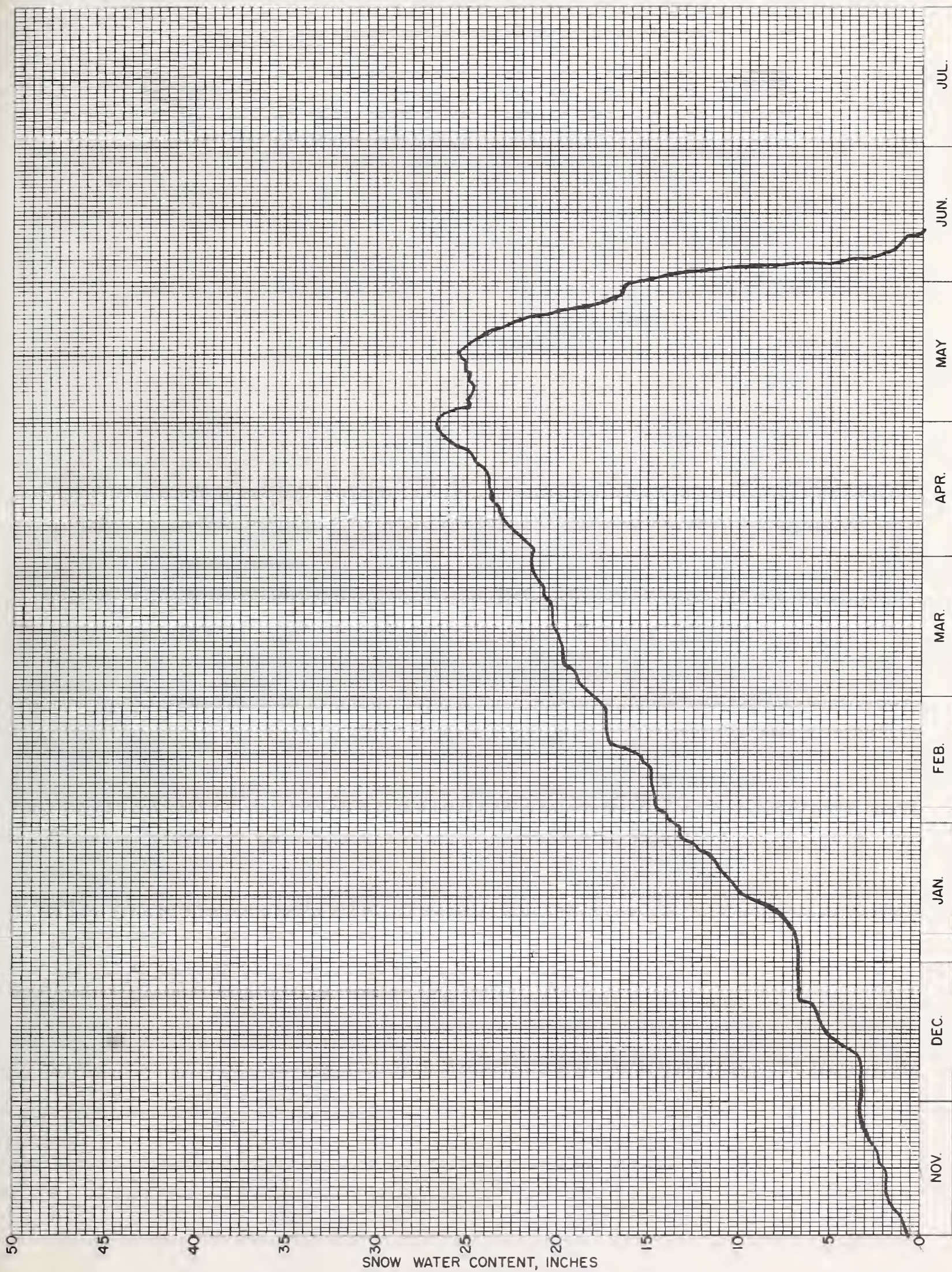
SNOW PILLOW DATA
WATER YEAR 1970

HAWKINS LAKE

No. 15A03

Elev. 6450

Drainage: Kootenai



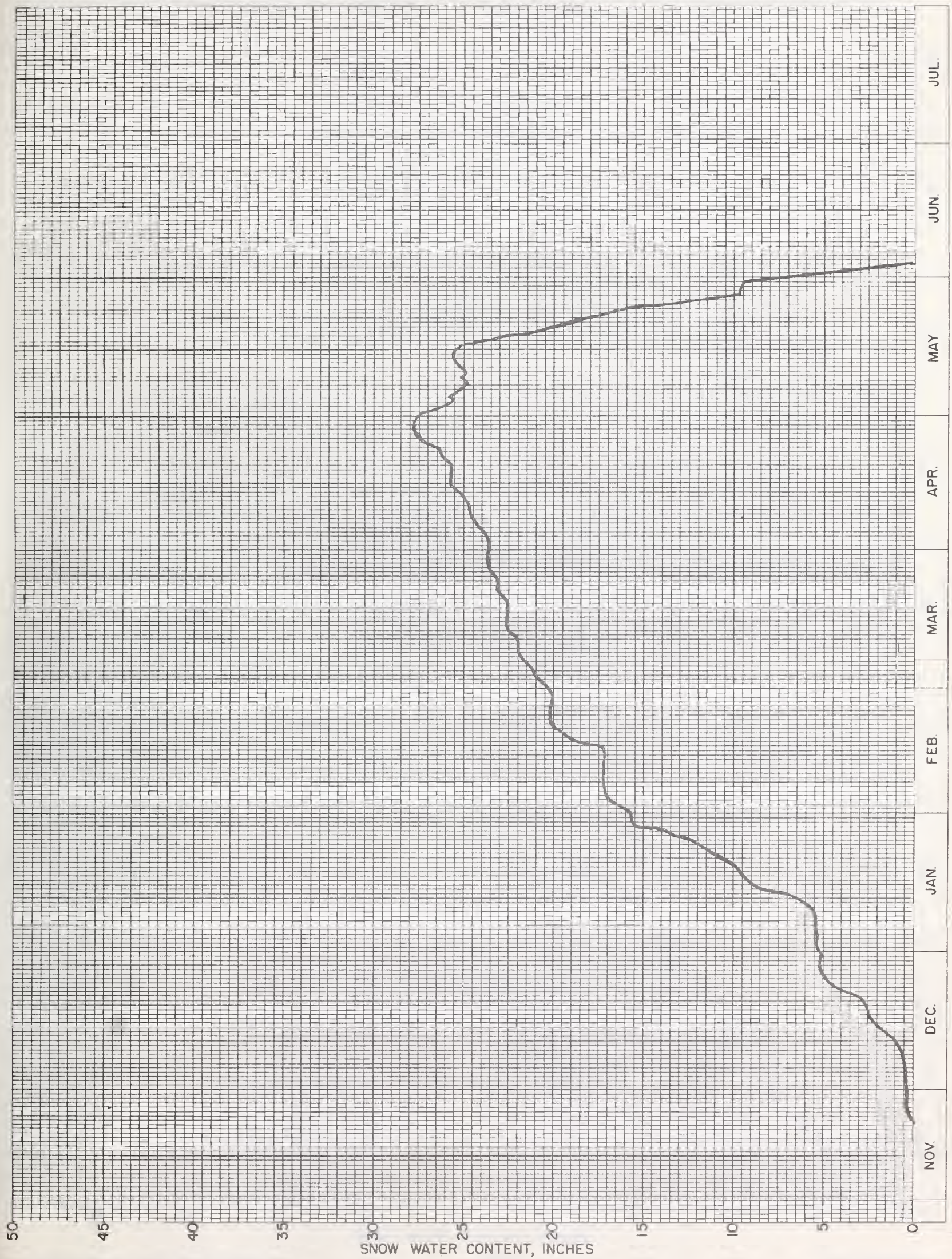
SNOW WATER CONTENT, INCHES



SNOW PILLOW DATA
WATER YEAR 1970

POORMAN CREEK

No. 15A12 Elev. 5100 Drainage: Kootenai



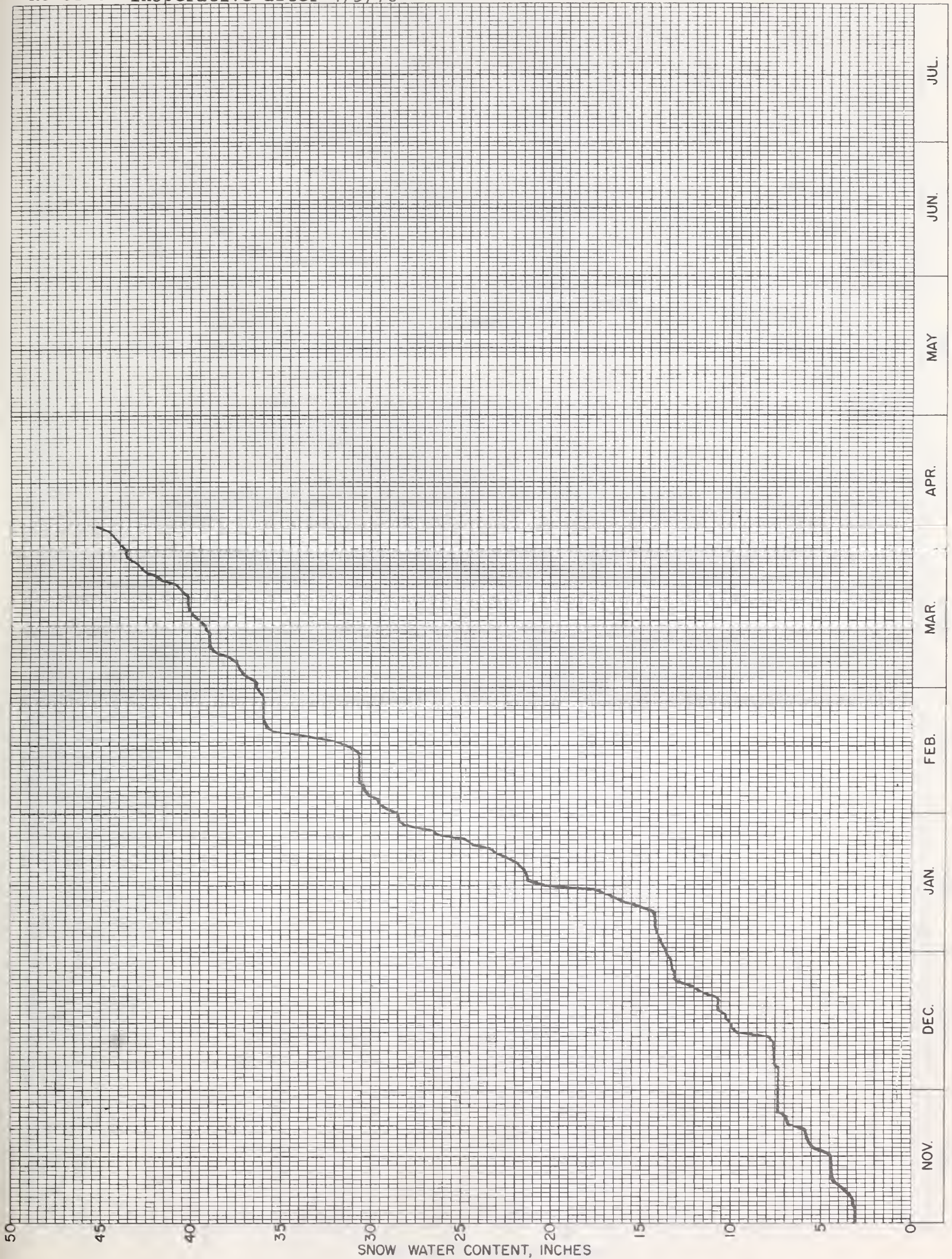


SNOW PILLOW DATA
WATER YEAR 1970

FLATTOP MOUNTAIN

No. 13A19 Elev. 6300
Recorder inoperative after 4/5/70

Drainage: Flathead



SNOW WATER CONTENT, INCHES

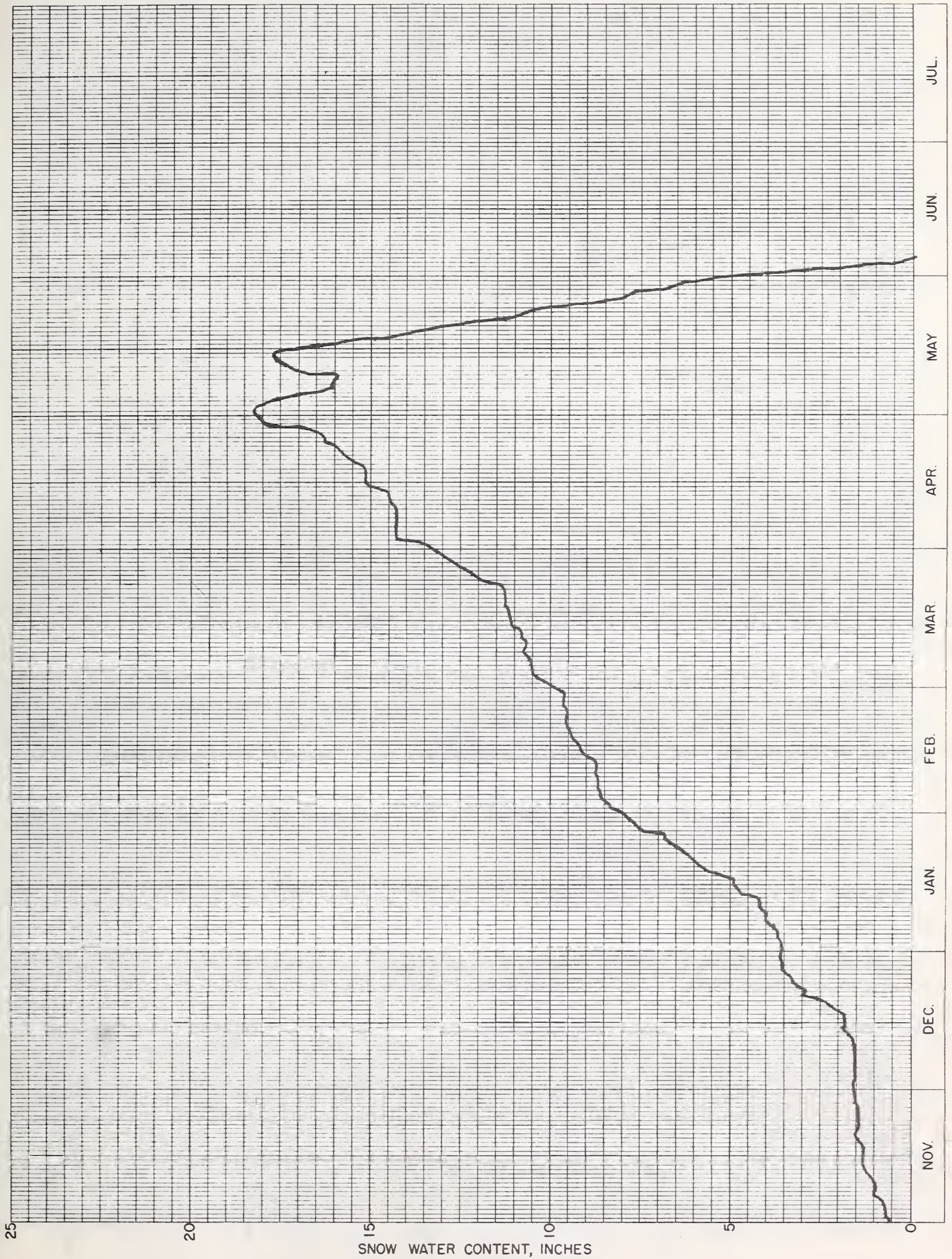
SNOW PILLOW DATA
WATER YEAR 1970

BLACK PINE

No. 13C13

Elev. 7100

Drainage. Clark Fork





SNOW PILLOW DATA
WATER YEAR 1970

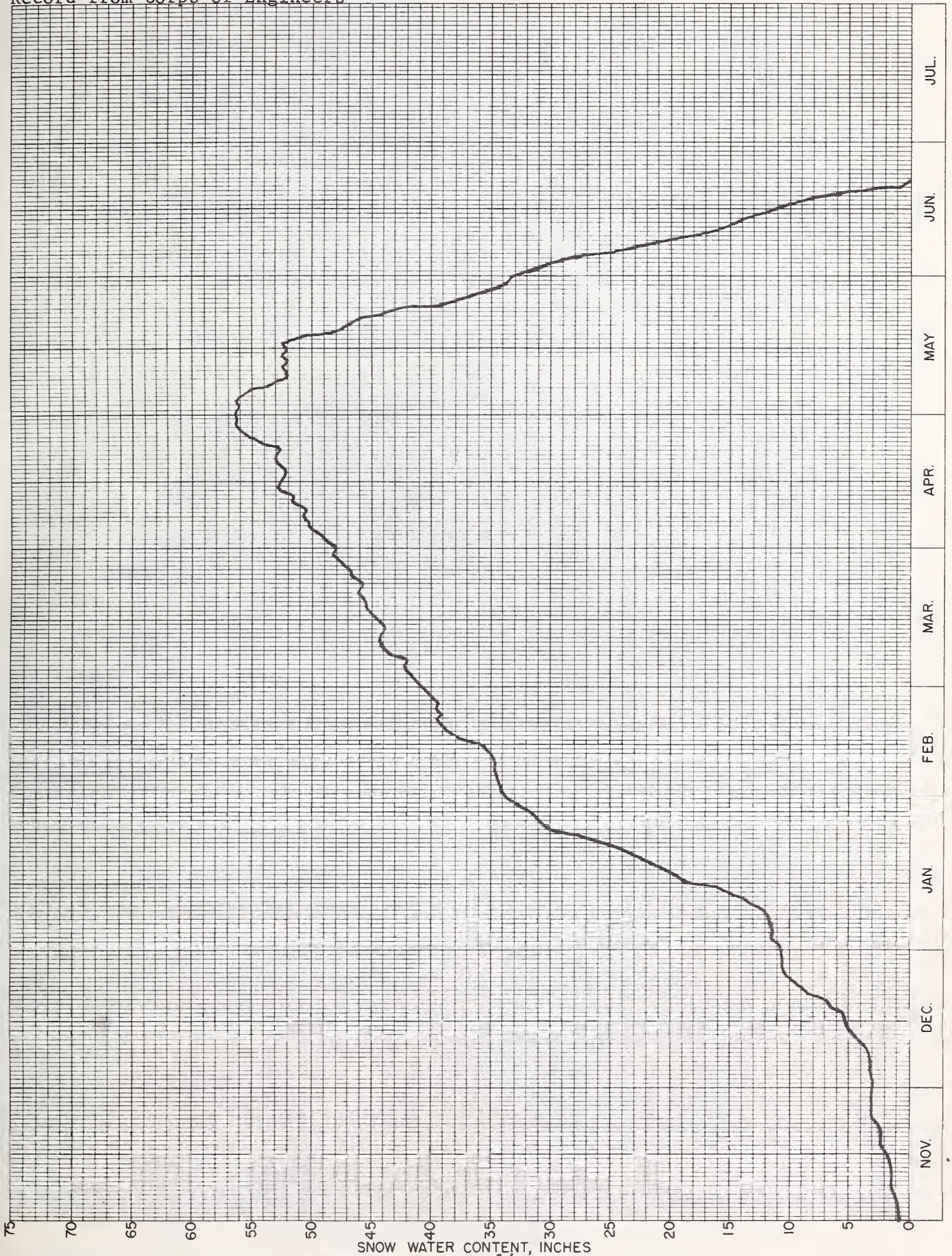
HOODOO BASIN

No. 15C10

Elev. 6000

Drainage: Clark Fork

Record from Corps of Engineers



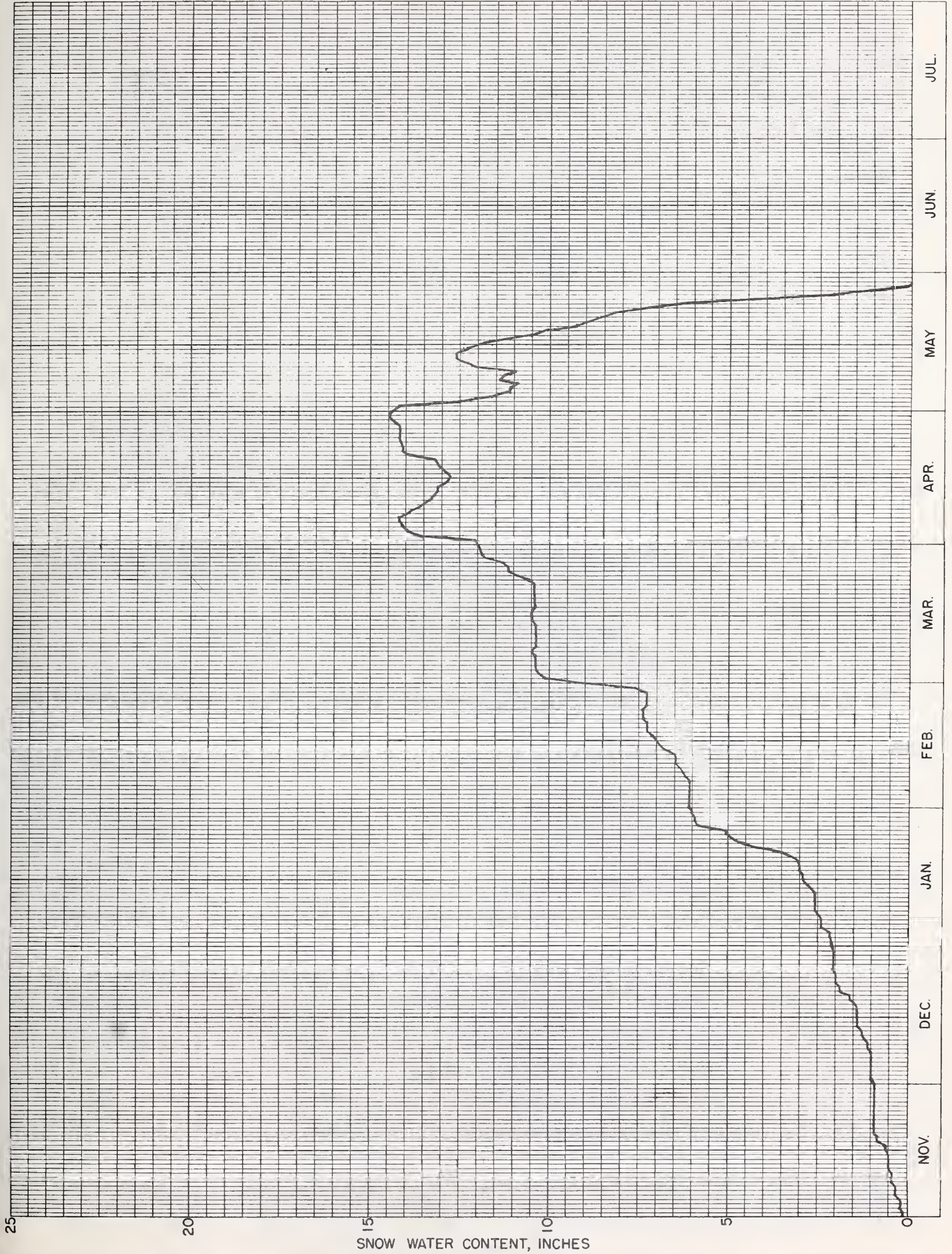
Handwritten header information, possibly a title or date, located at the top of the page.



SNOW PILLOW DATA
WATER YEAR 1970

NORTH FORK ELK CREEK

No. 13C31 Elev. 6250 Drainage. Clark Fork
Record from U of M School of Forestry

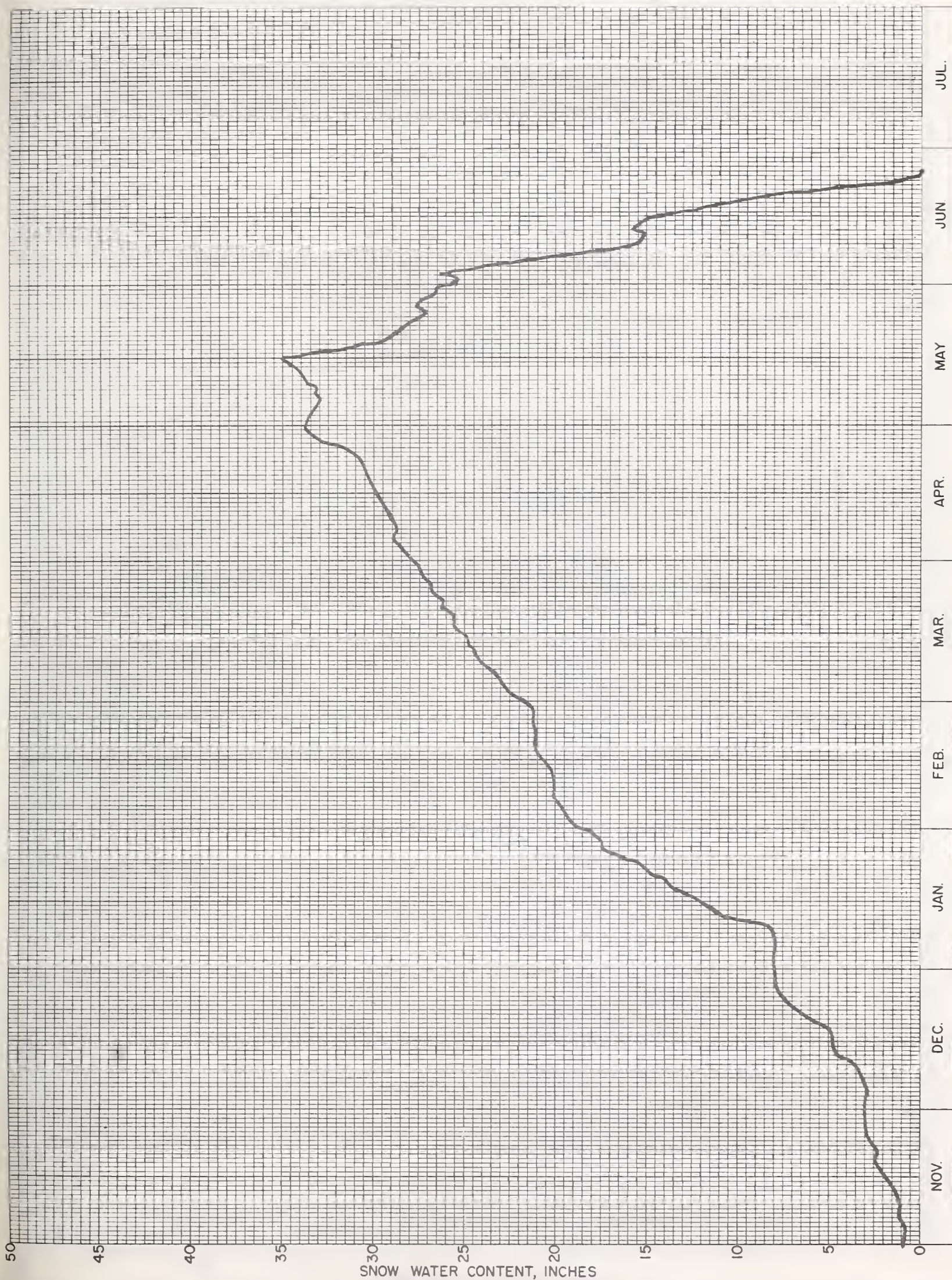


SNOW WATER CONTENT, INCHES

SNOW PILLOW DATA
WATER YEAR 1970

SADDLE MOUNTAIN

No. 13D22 Elev. 7900 Drainage: Bitterroot

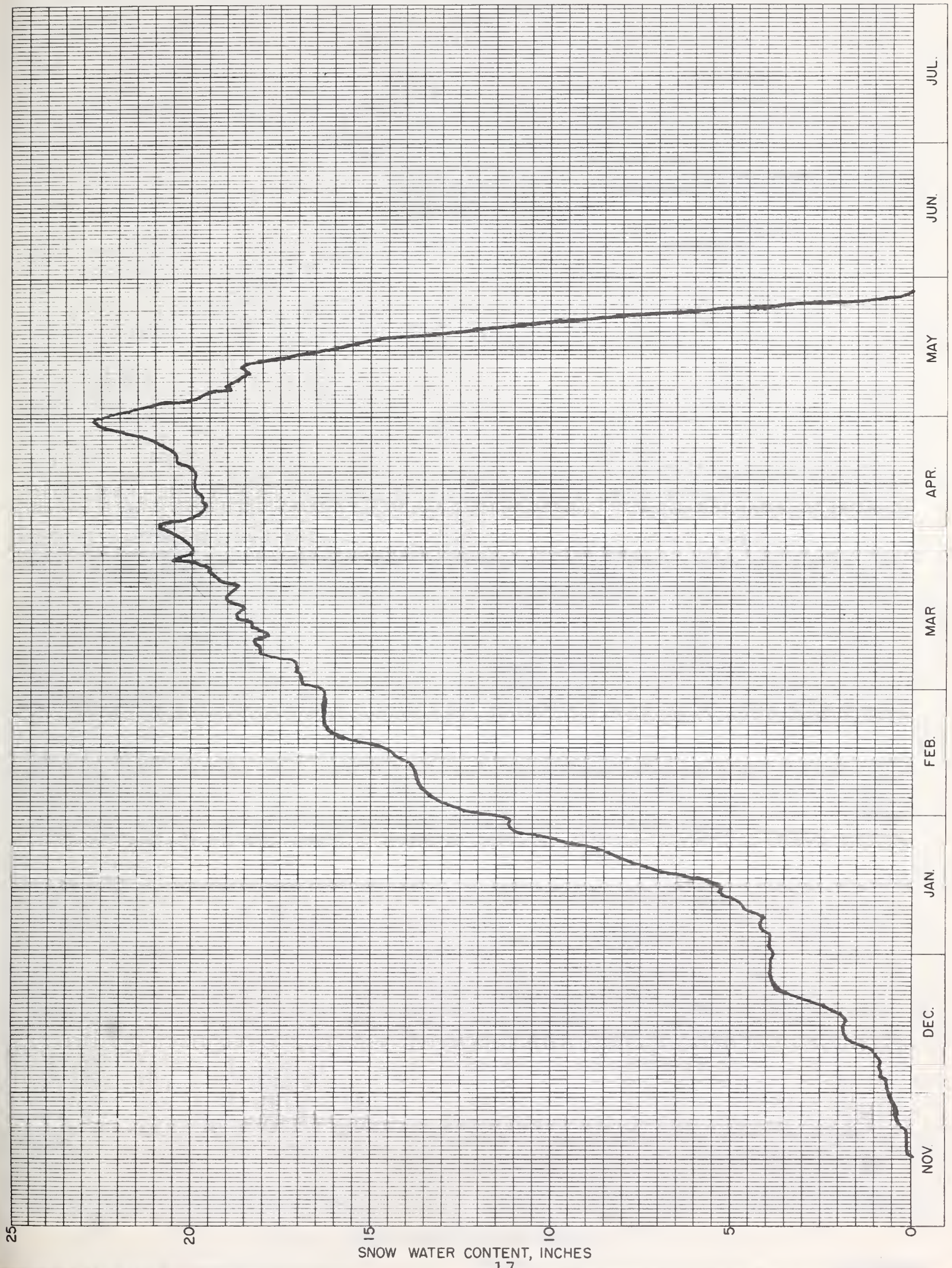




SNOW PILLOW DATA
WATER YEAR 1970

TWELVEMILE CREEK

No. 14C13 Elev. 5600 Drainage. Bitterroot





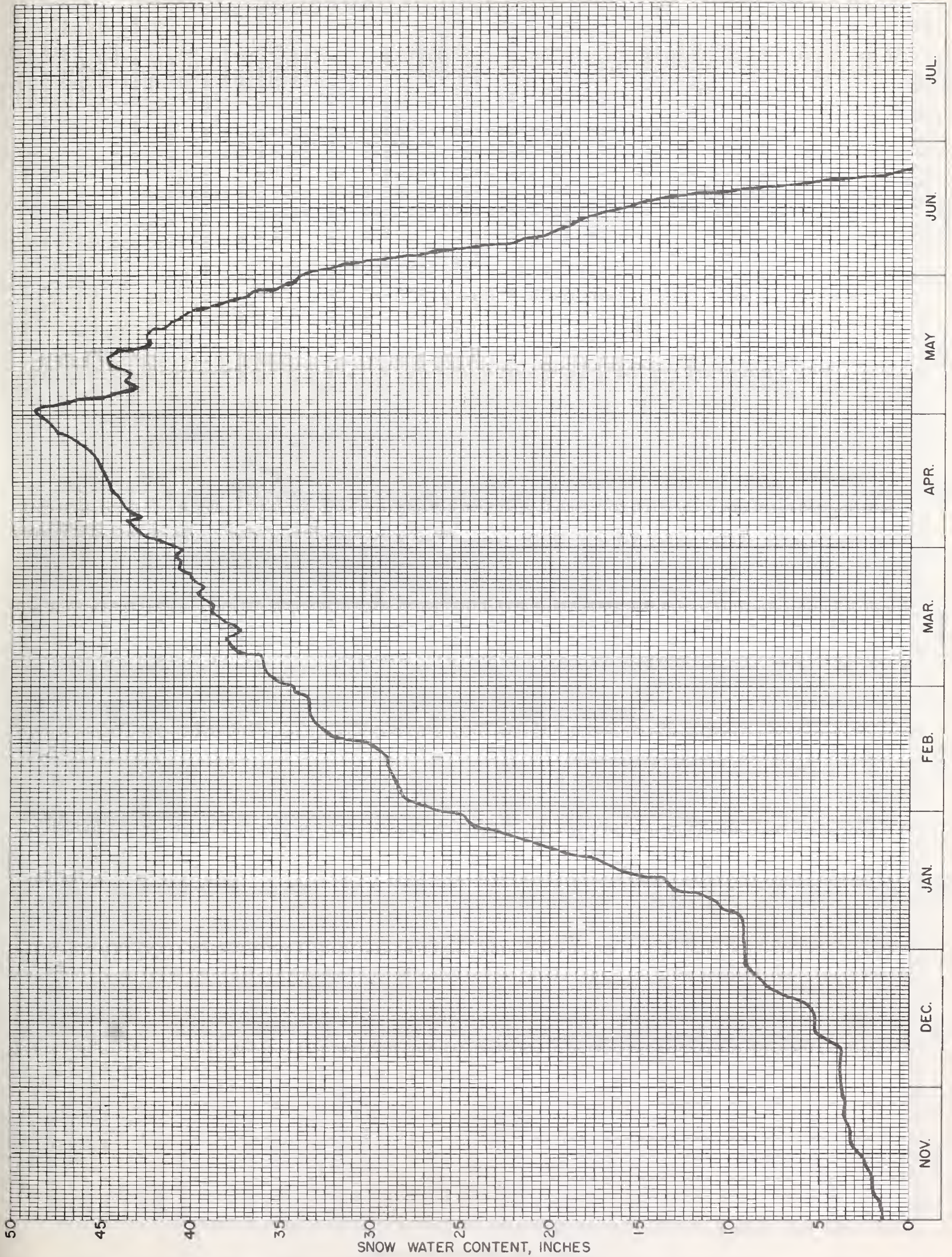
SNOW PILLOW DATA
WATER YEAR 1970

TWIN LAKES

No. 14C12

Elev. 6400

Drainage: Bitterroot

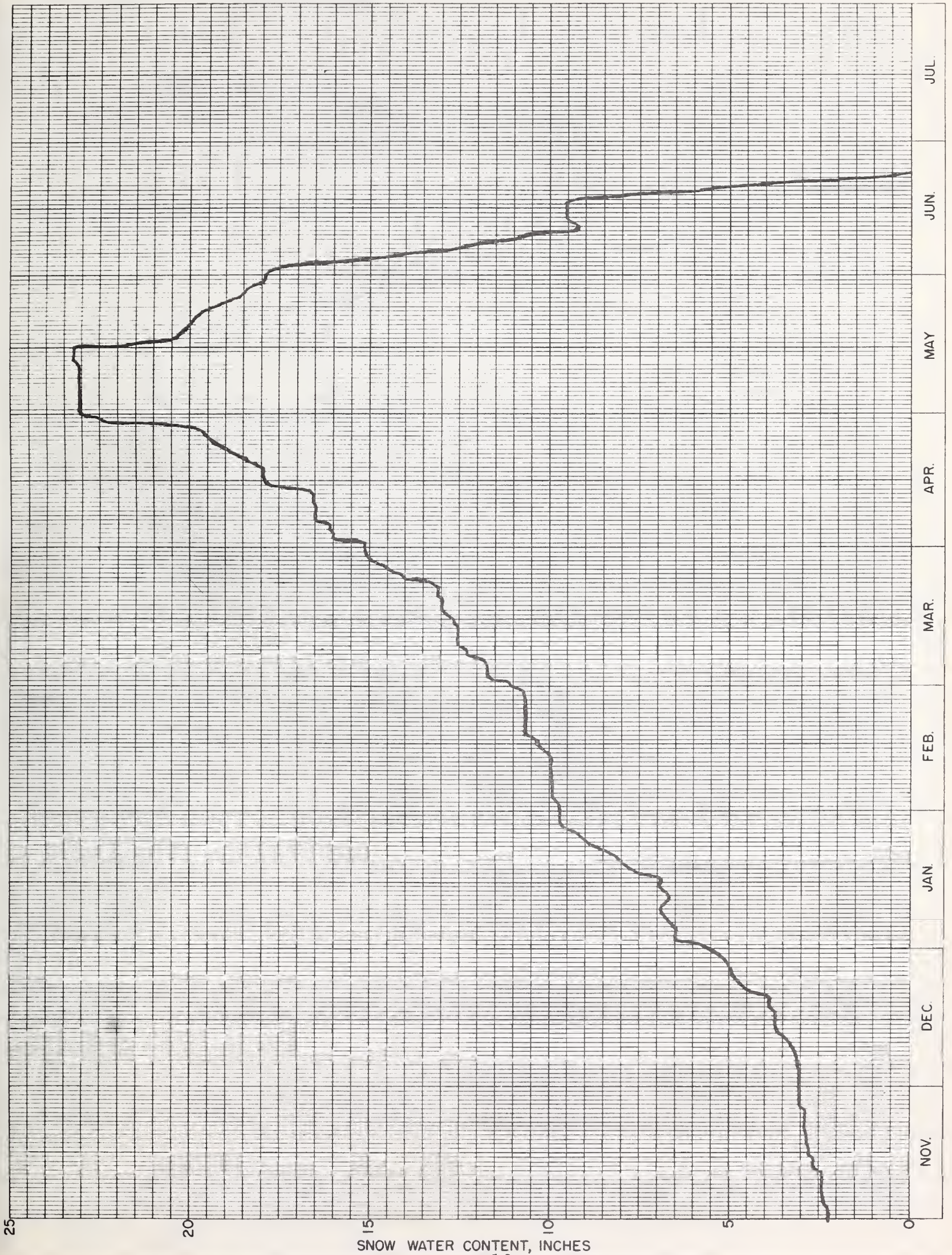




SNOW PILLOW DATA
WATER YEAR 1970

ROCKER PEAK

No. 12C11 Elev. 8000 Drainage. Jefferson



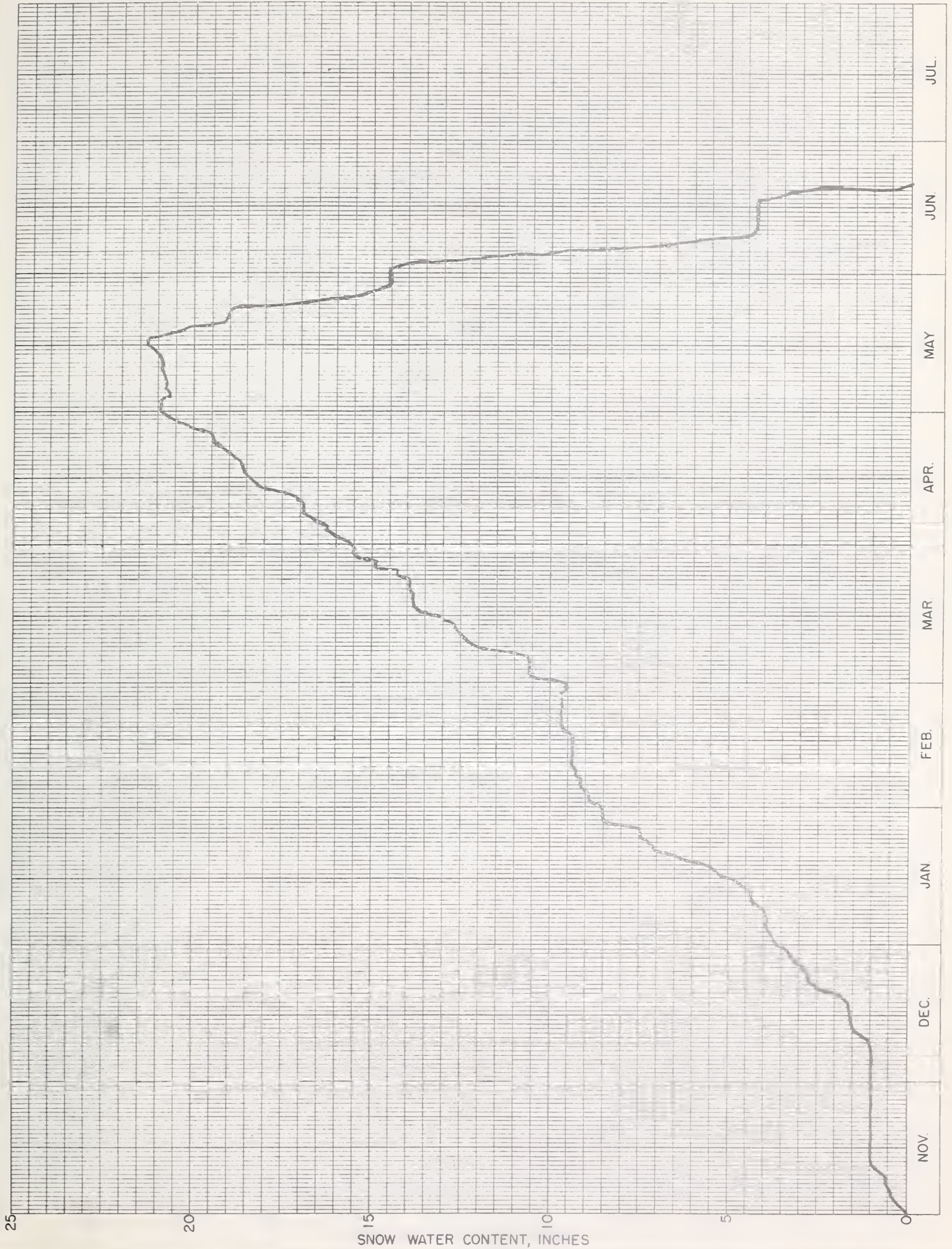
SNOW WATER CONTENT, INCHES



SNOW PILLOW DATA
WATER YEAR 1970

LION MOUNTAIN

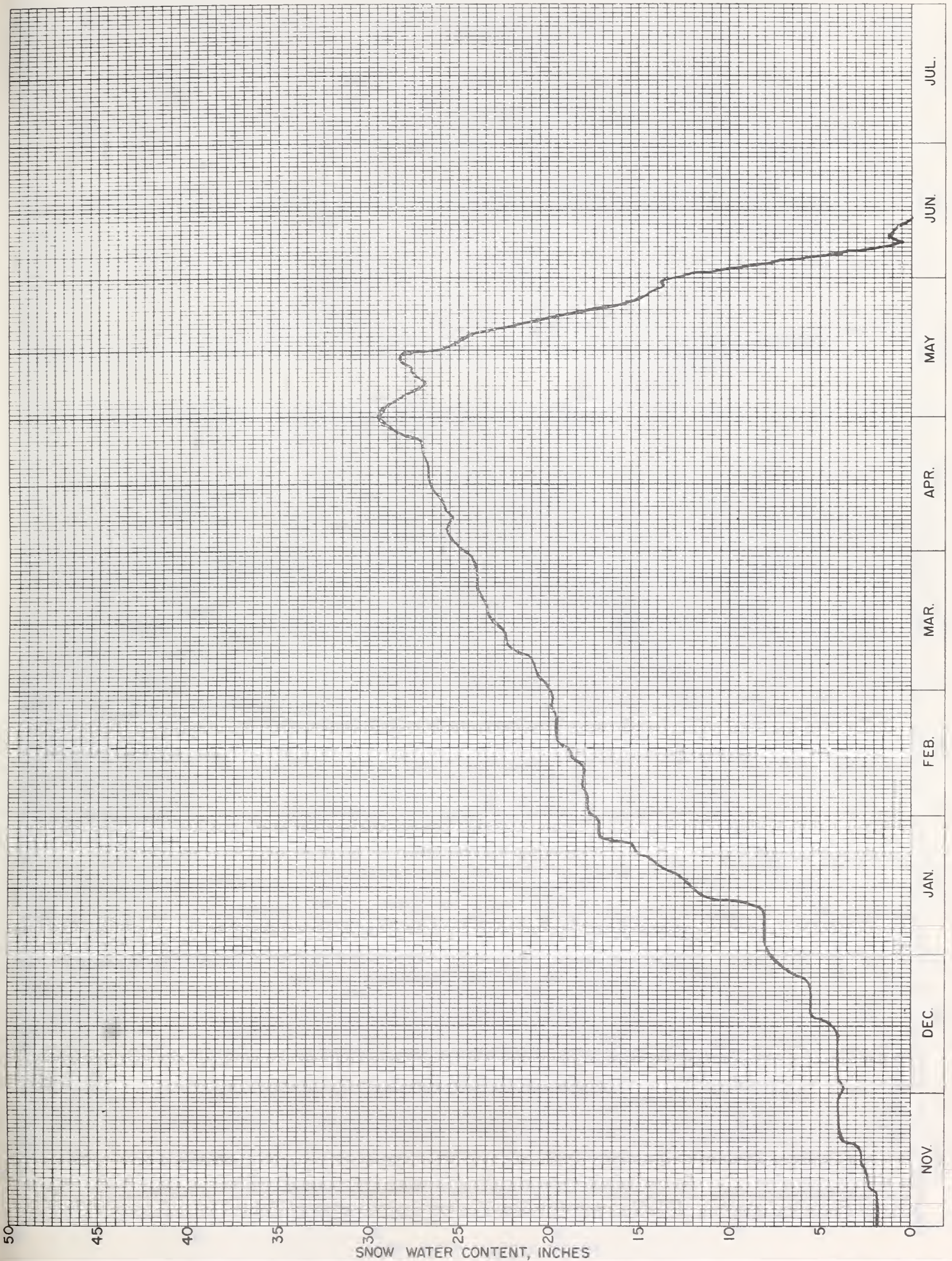
No. 11E28 Elev. 8760 Drainage. Madison
Record from U. S. Forest Service



SNOW PILLOW DATA
WATER YEAR 1970

MADISON PLATEAU

No. 11E31 Elev. 7750 Drainage: Madison





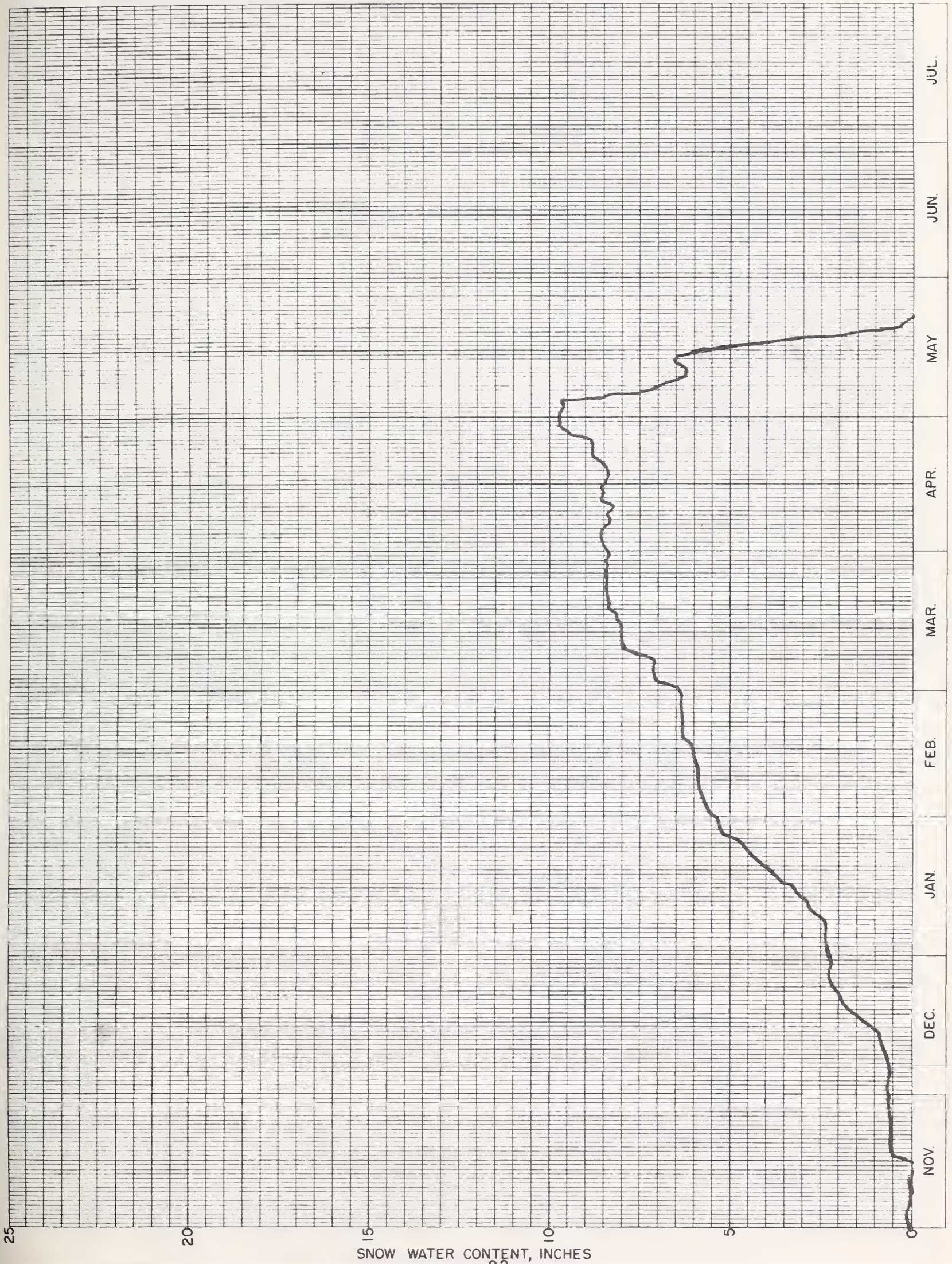
SNOW PILLOW DATA
WATER YEAR 1970

WEST YELLOWSTONE

No. 11E07

Elev. 6700

Drainage. Madison

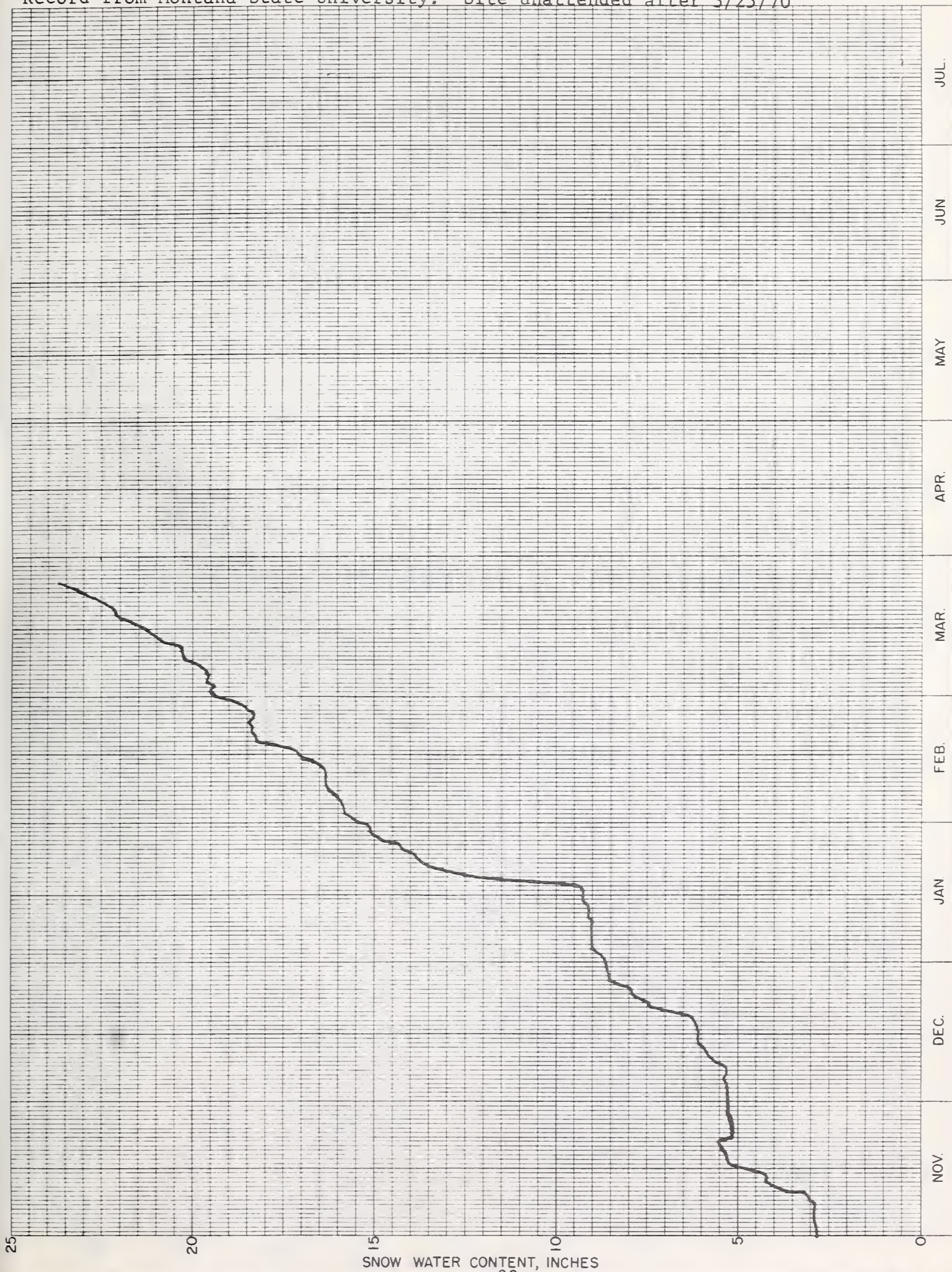




SNOW PILLOW DATA
WATER YEAR 1970

BANGTAIL

No. 10D20 Elev. 7900 Drainage. Gallatin
Record from Montana State University. Site unattended after 3/25/70



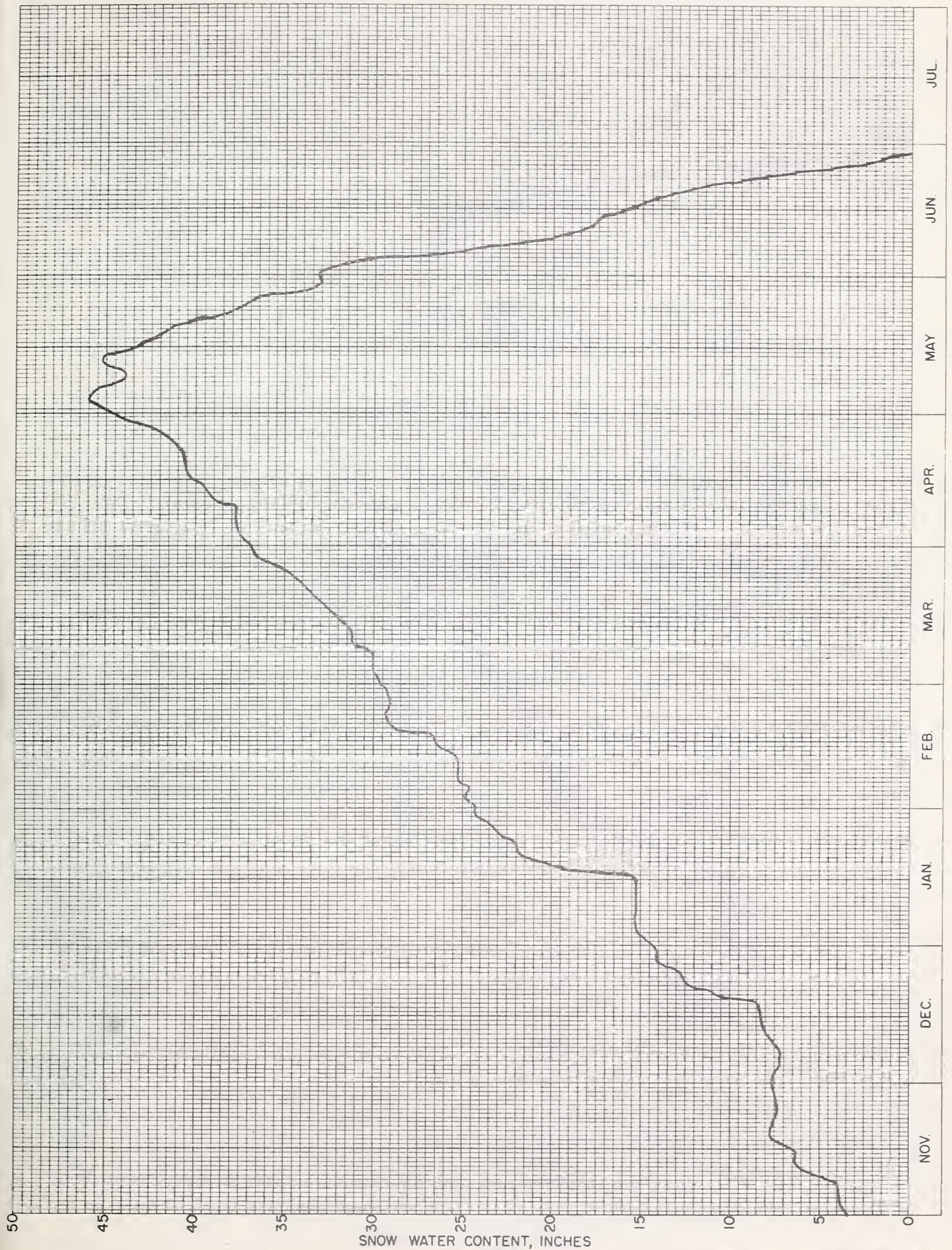
SNOW PILLOW DATA
WATER YEAR 1970

BRIDGER BOWL

No. 10D15

Elev. 7250

Drainage: Gallatin



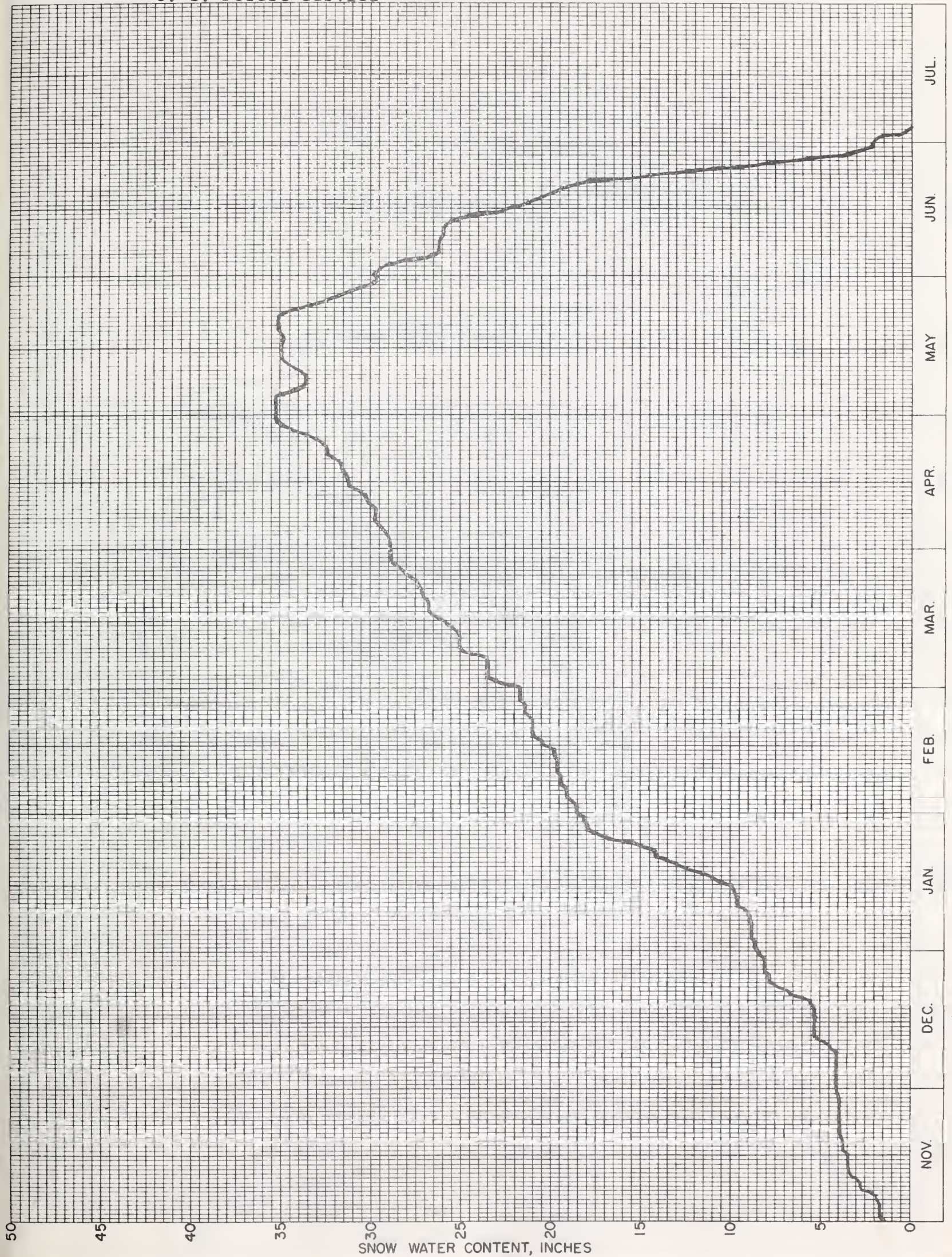
SNOW PILLOW DATA
WATER YEAR 1970

CARROT BASIN

No. 11E29
Record from U. S. Forest Service

Elev. 9000

Drainage: Gallatin



SNOW PILLOW DATA
WATER YEAR 1970

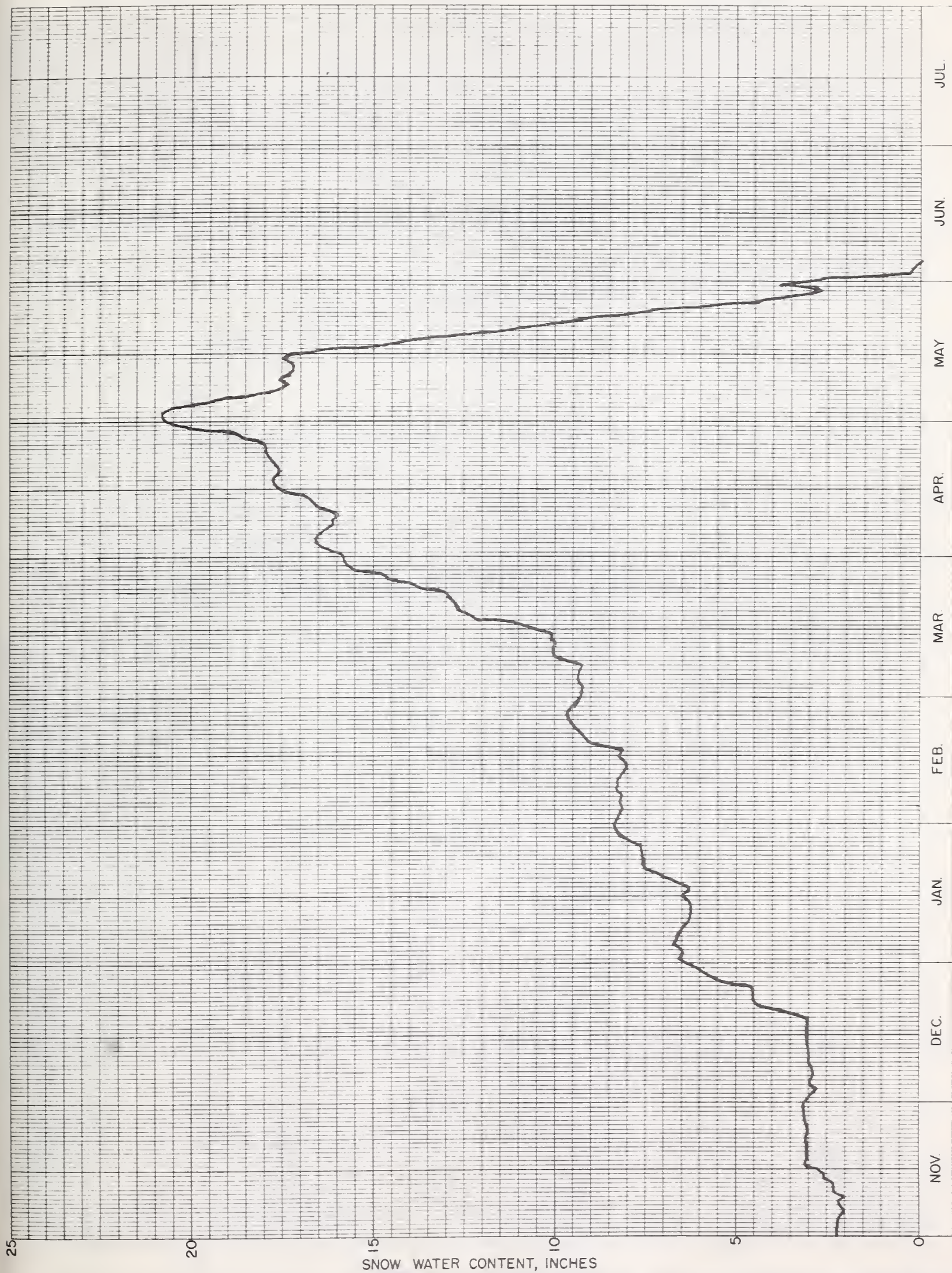
LICK CREEK

No. 10D13

Elev. 6860

Drainage.

Gallatin



SNOW WATER CONTENT, INCHES

SNOW PILLOW DATA
WATER YEAR 1970

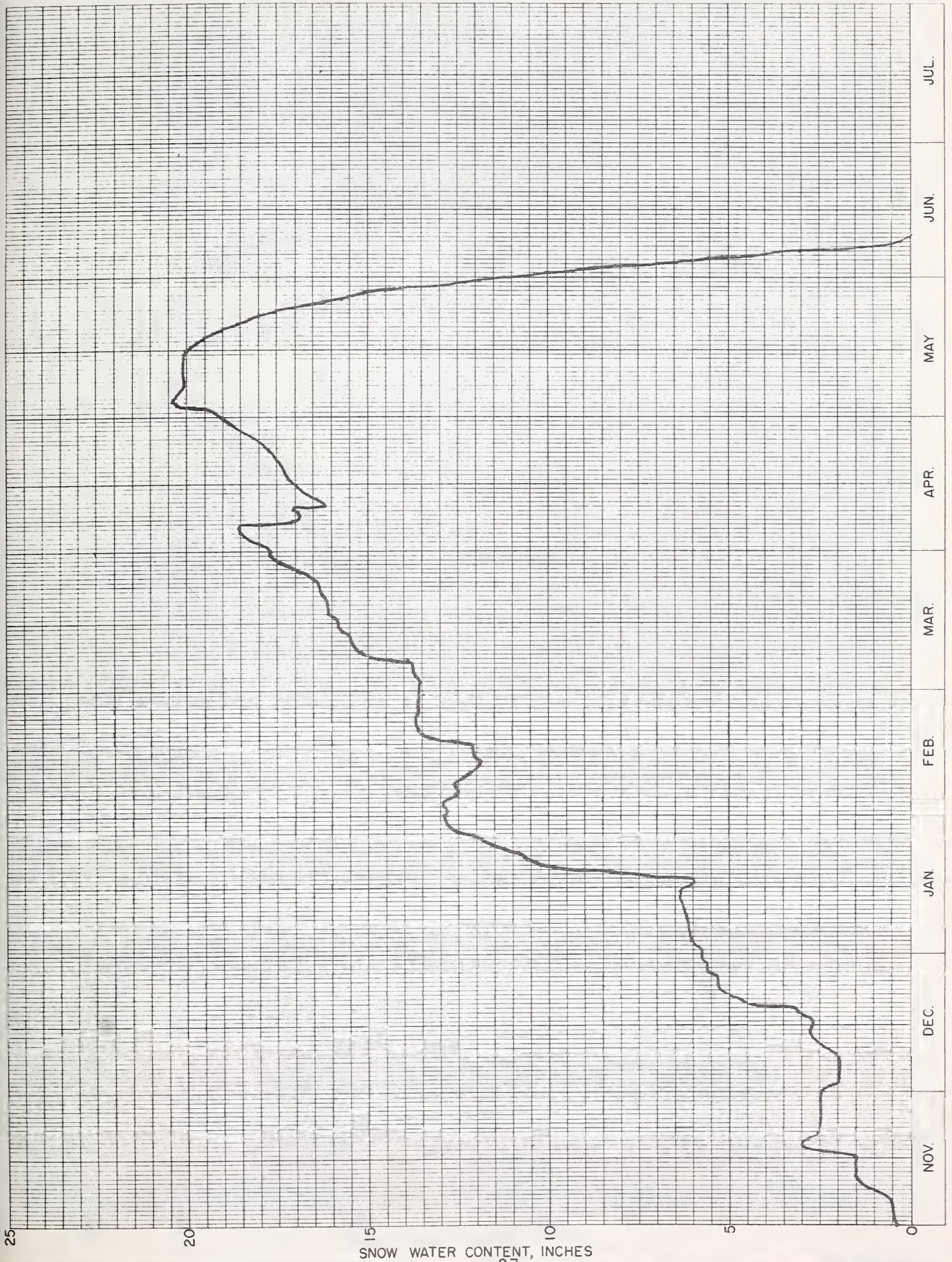
MAYNARD CREEK

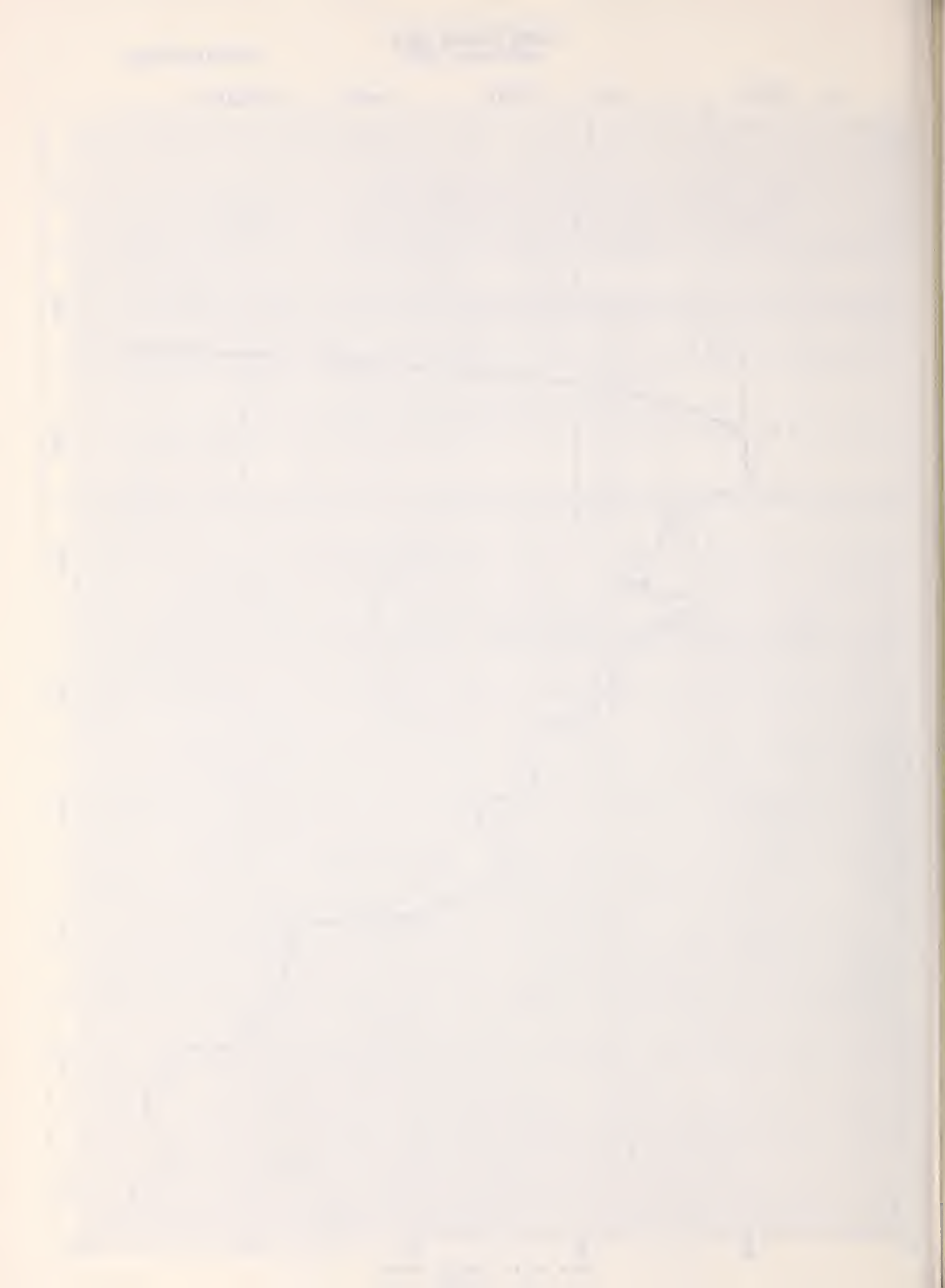
No. 10D18

Elev. 6210

Drainage.

Gallatin





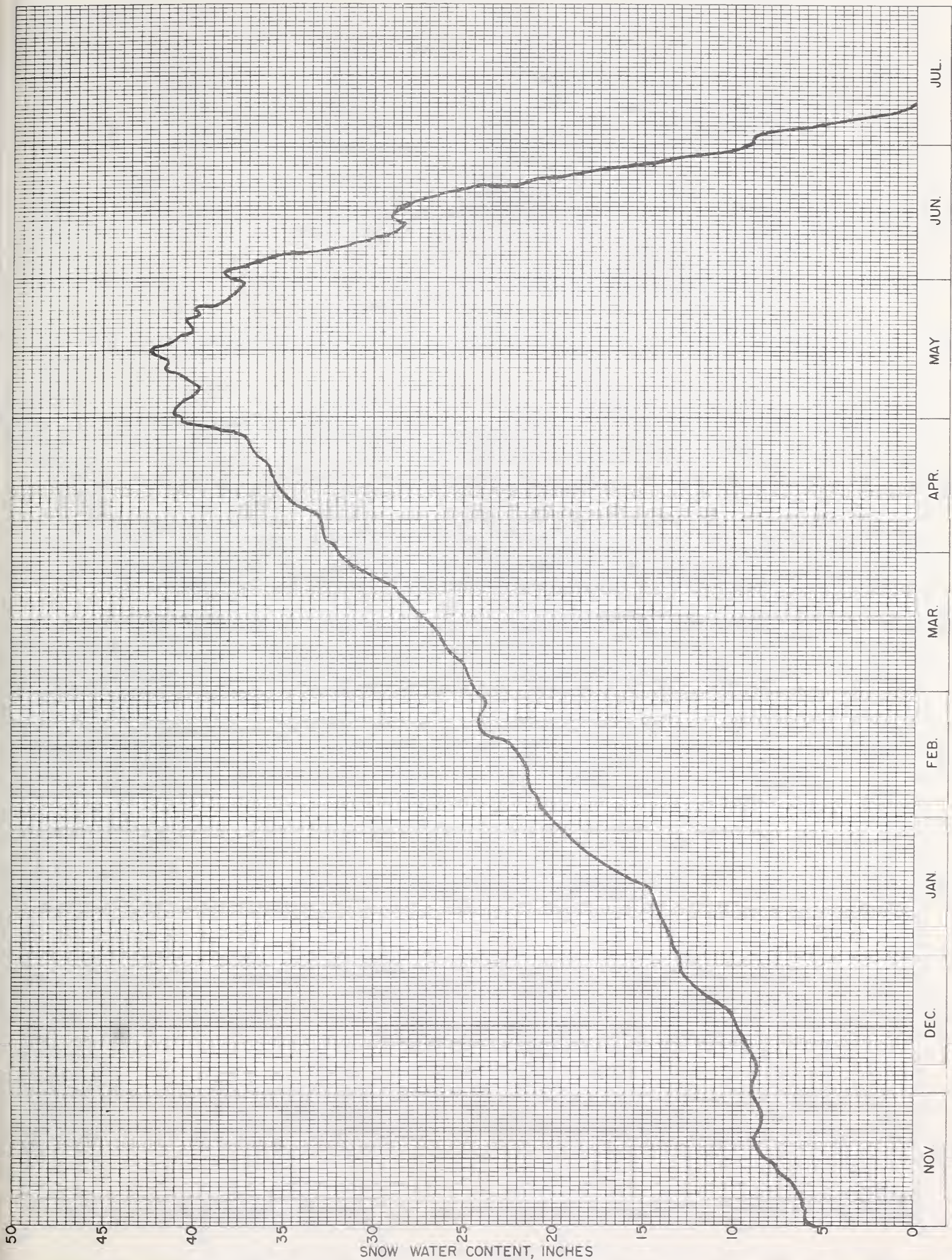
SNOW PILLOW DATA
WATER YEAR 1970

SHOWER FALLS

No. 10D16

Elev. 8100

Drainage: Gallatin





SNOW PILLOW DATA
WATER YEAR 1970

TAYLOR PEAKS

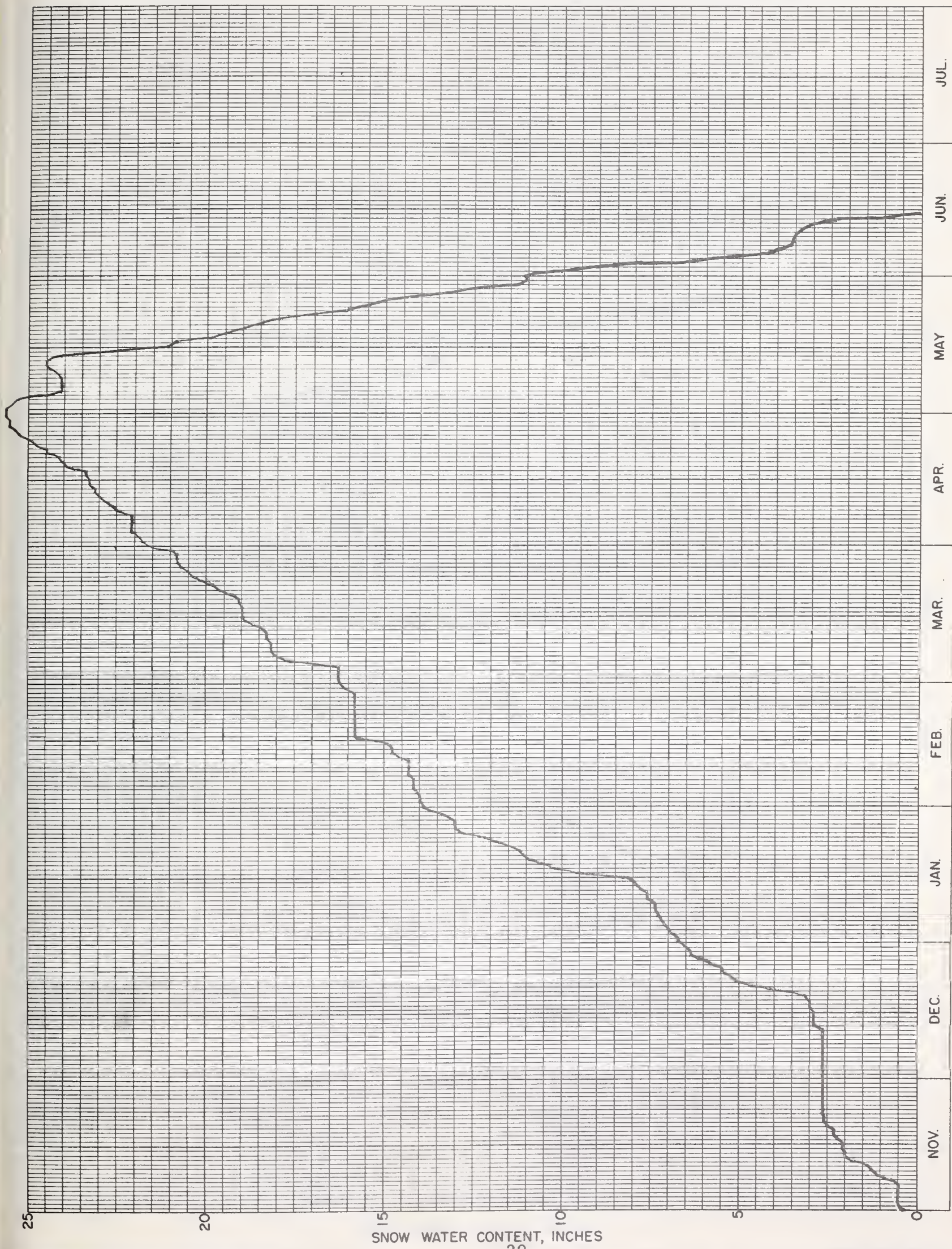
No. 11D13

Elev.

8500

Drainage.

Gallatin



SNOW PILLOW DATA
WATER YEAR 1970

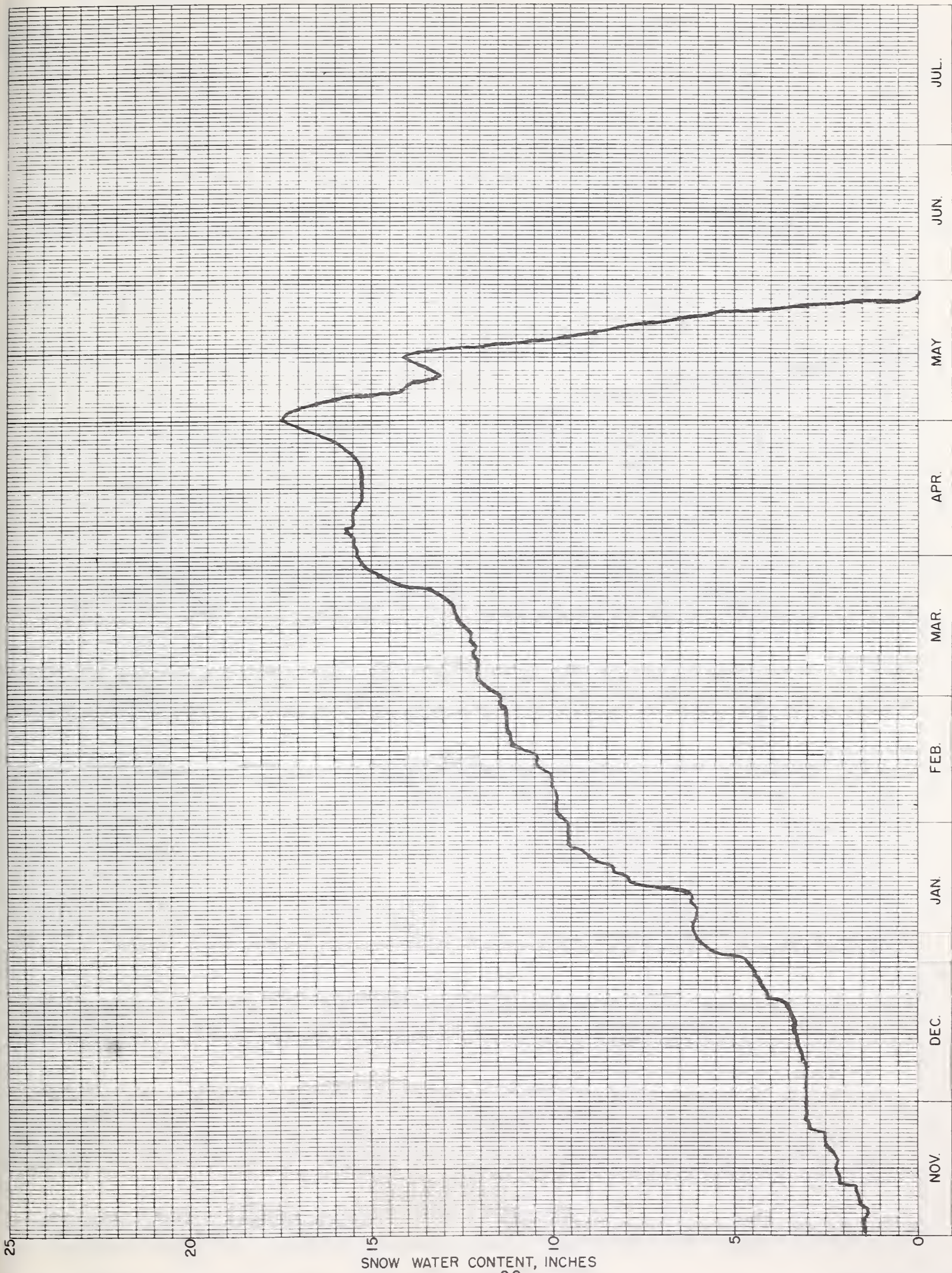
DEADMAN CREEK

Missouri Main Stem

No. 10C09

Elev. 6450

Drainage.



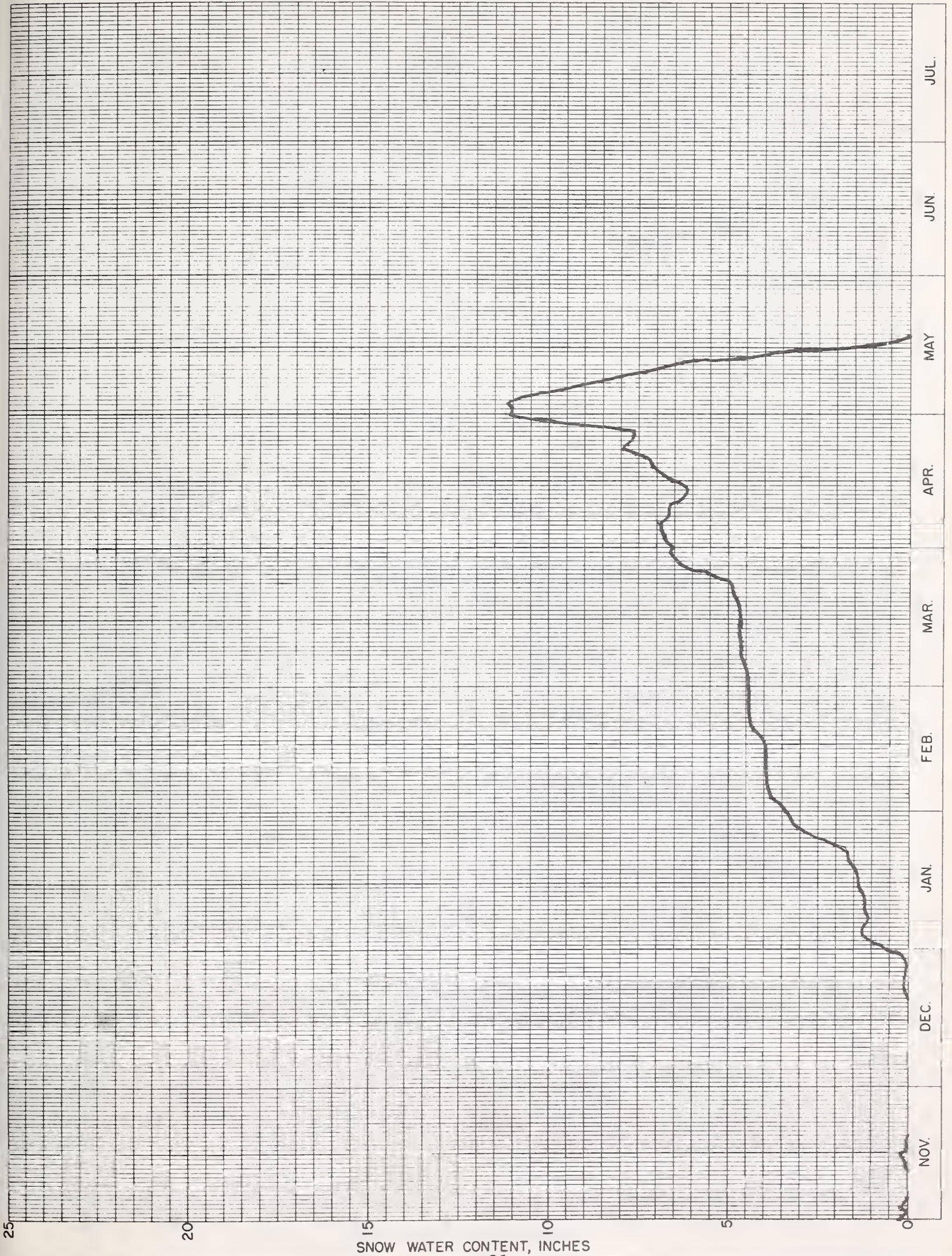
SNOW WATER CONTENT, INCHES

-30-

SNOW PILLOW DATA
WATER YEAR 1970

ROCKY BOY

No. 9A01 Elev. 4700 Drainage. Milk



SNOW WATER CONTENT, INCHES

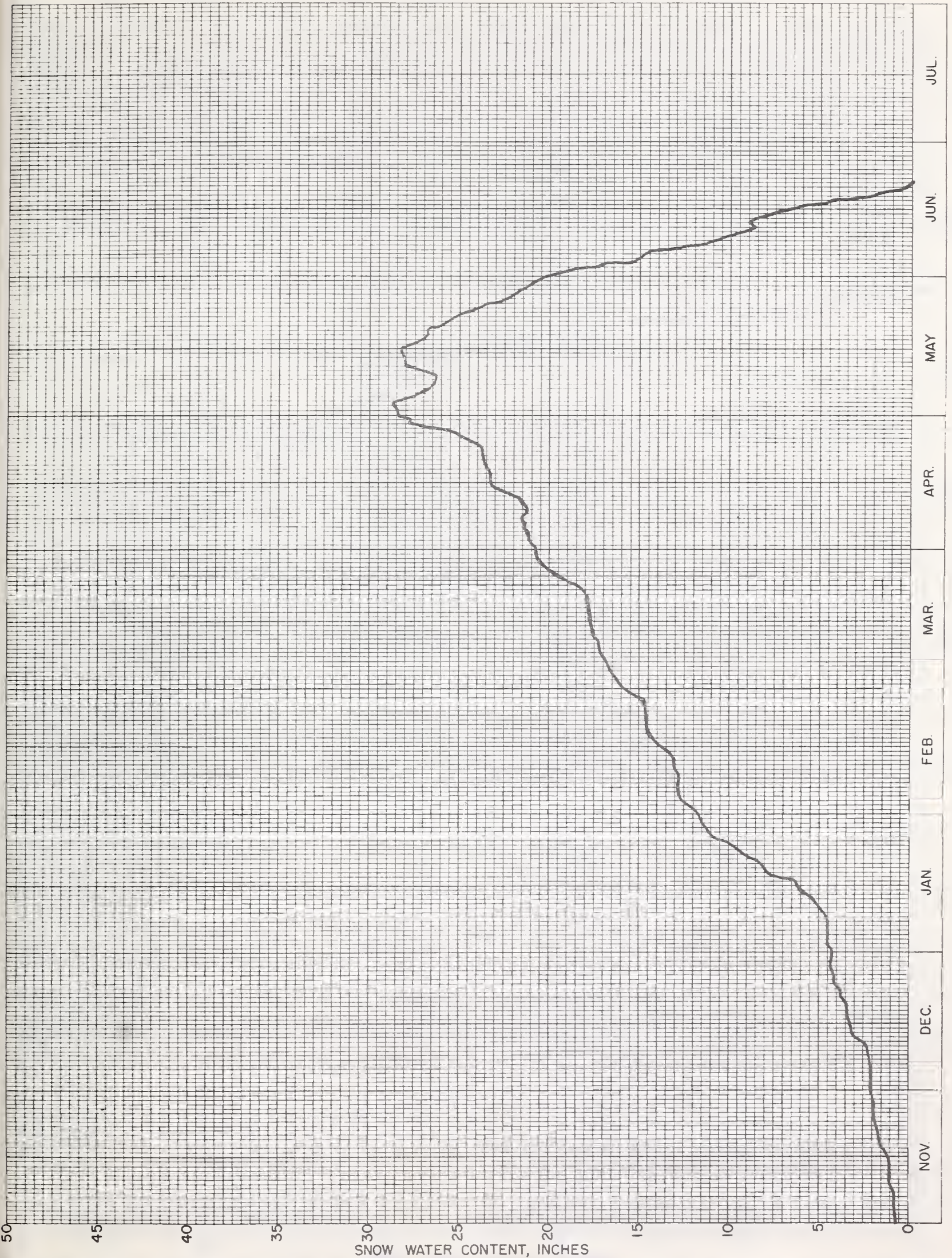
SNOW PILLOW DATA
WATER YEAR 1970

MOUNT LOCKHART

No. 12B12

Elev. 6400

Drainage: Sun-Teton-Marias





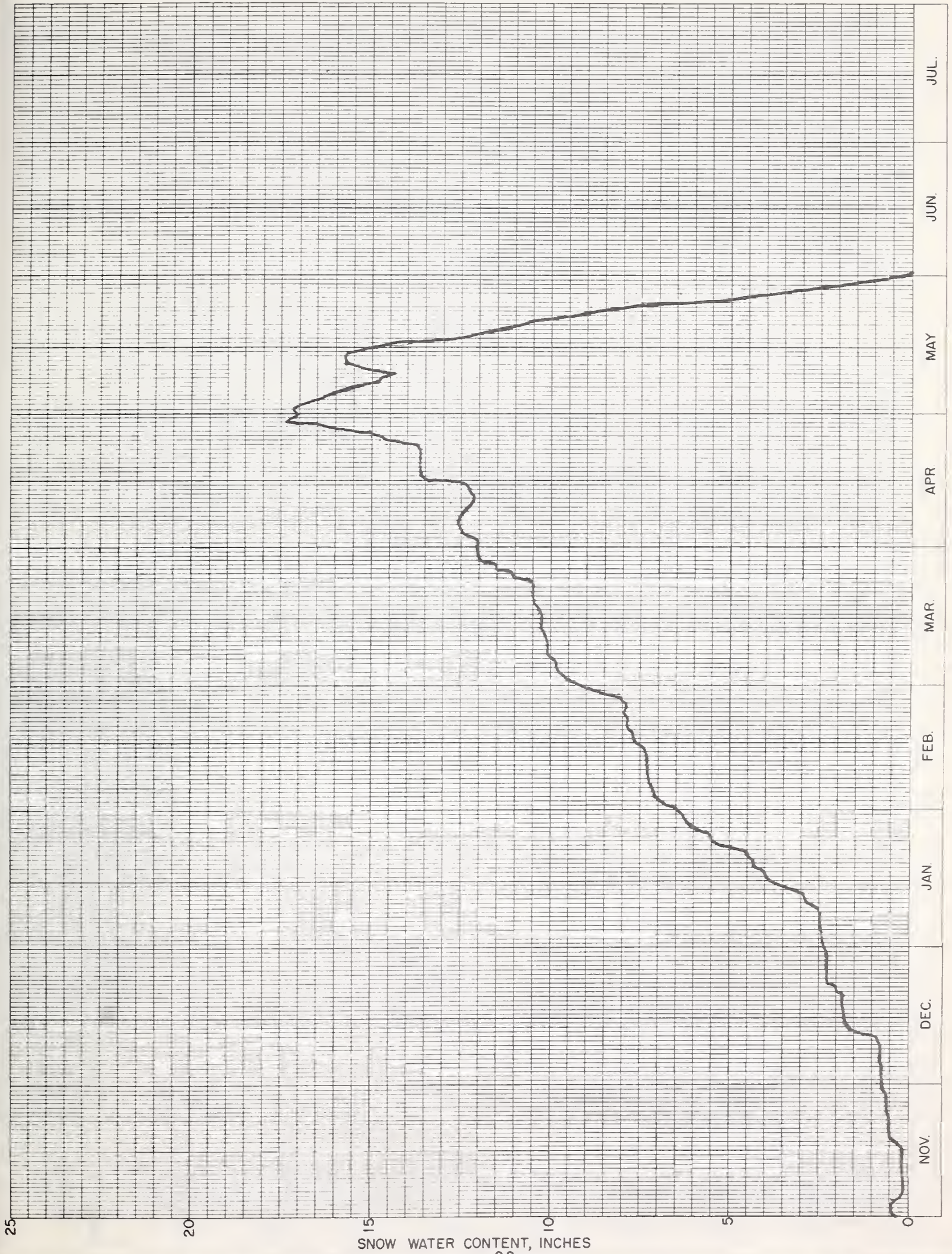
SNOW PILLOW DATA
WATER YEAR 1970

WALDRON

No. 12B13

Elev. 5600

Drainage. Sun-Teton-Marias





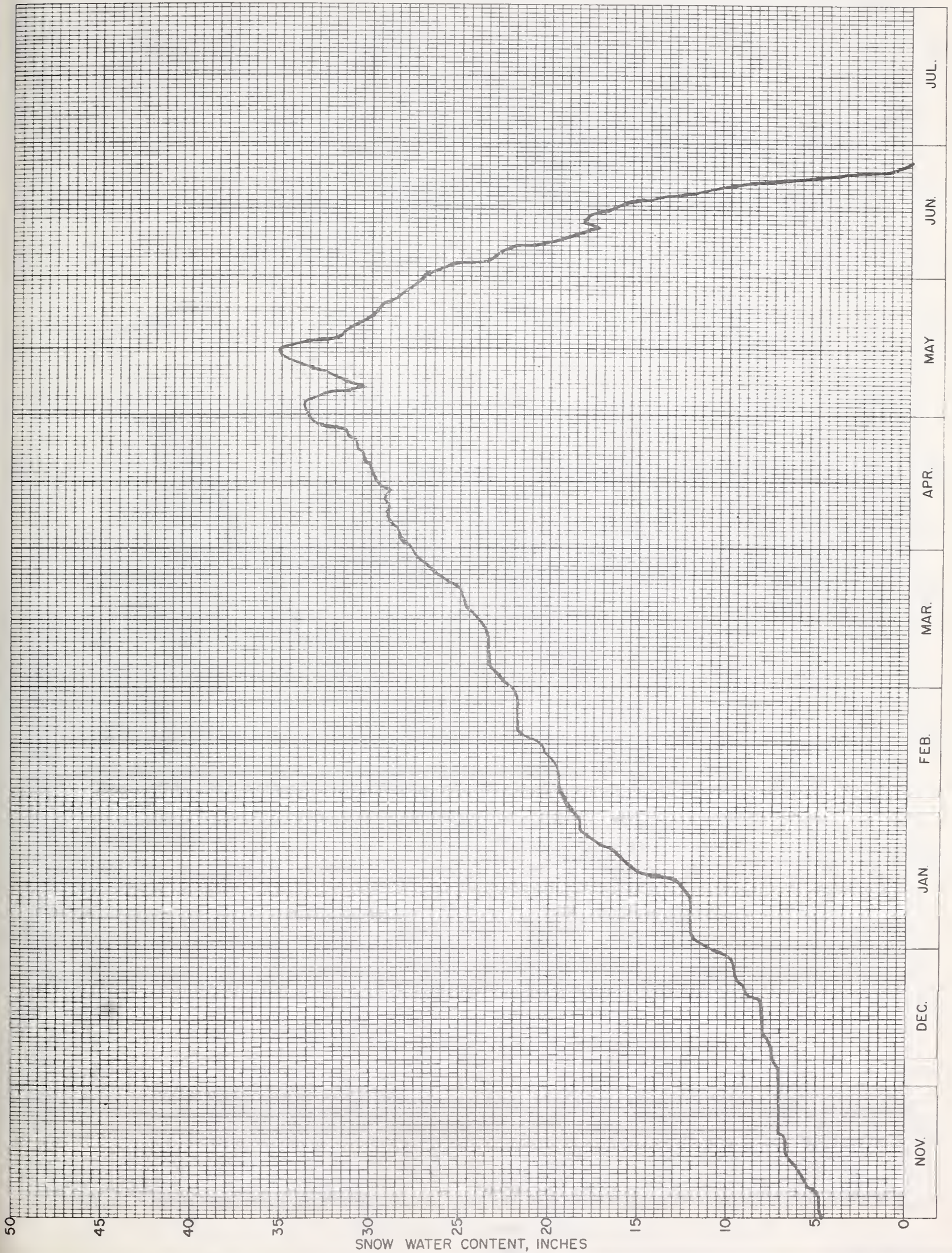
SNOW PILLOW DATA
WATER YEAR 1970

SPUR PARK

No. 10C06

Elev. 8000

Drainage: Judith



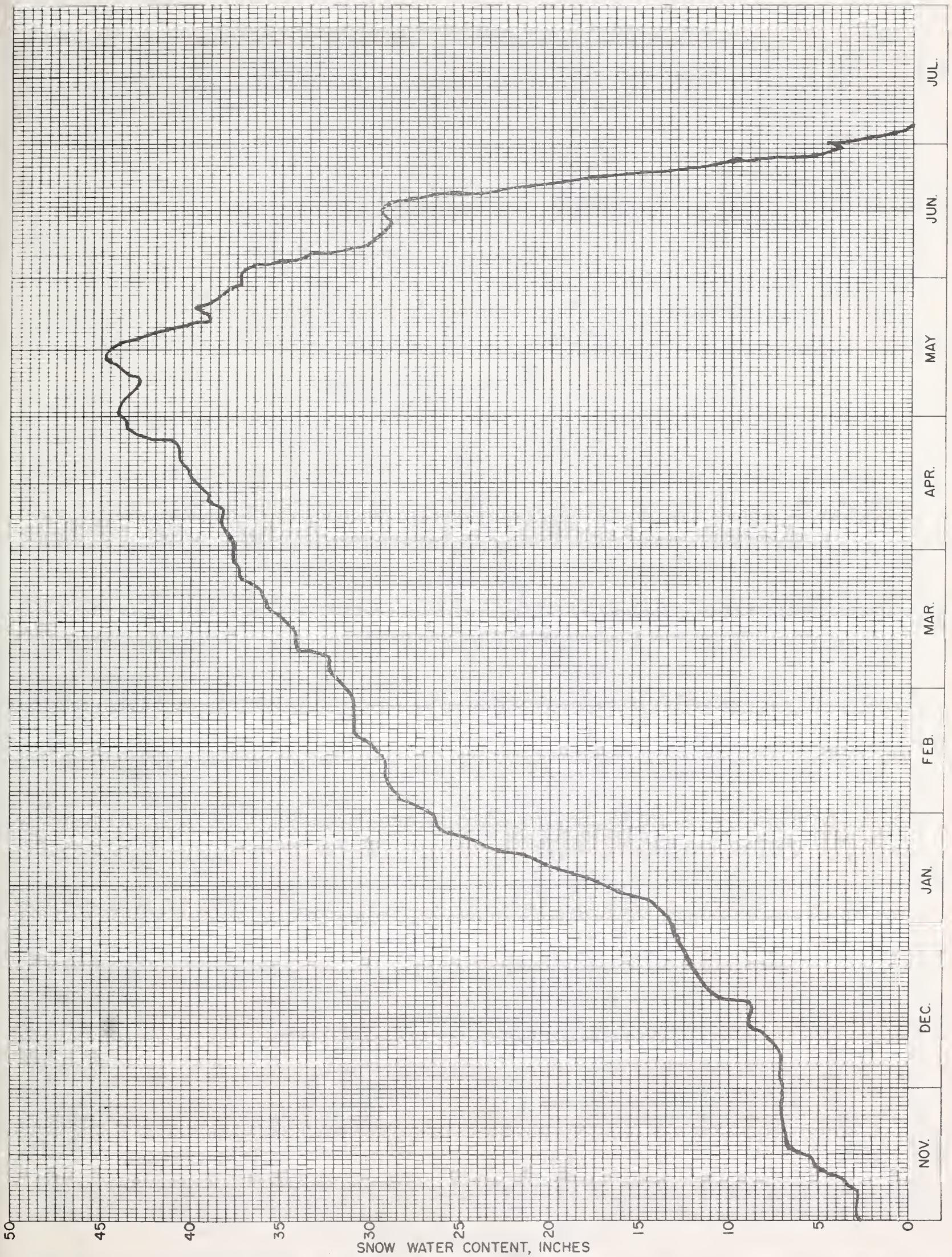
SNOW PILLOW DATA
WATER YEAR 1970

FISHER CREEK

No. 9D06

Elev. 9100

Drainage: Yellowstone





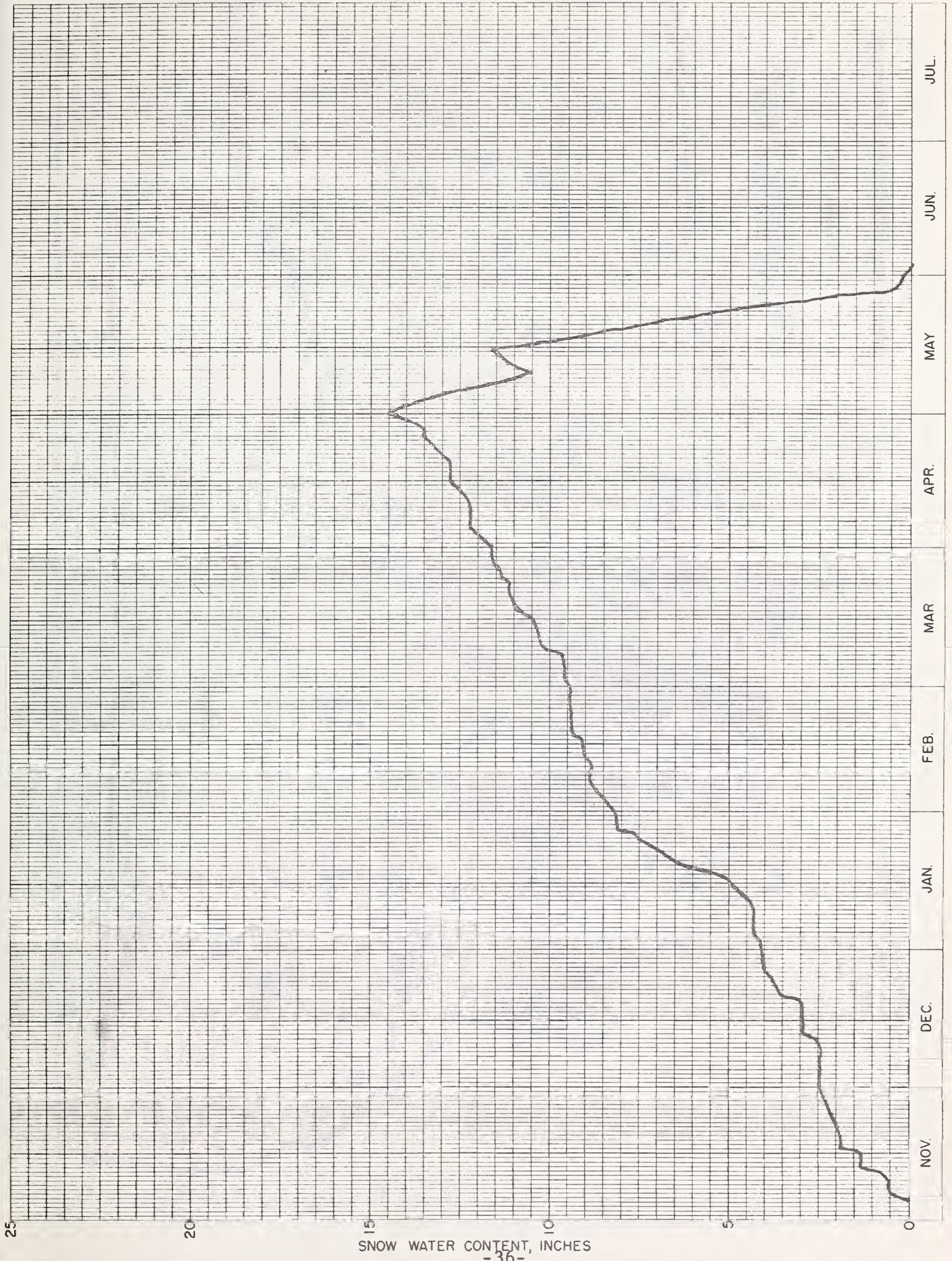
SNOW PILLOW DATA
WATER YEAR 1970

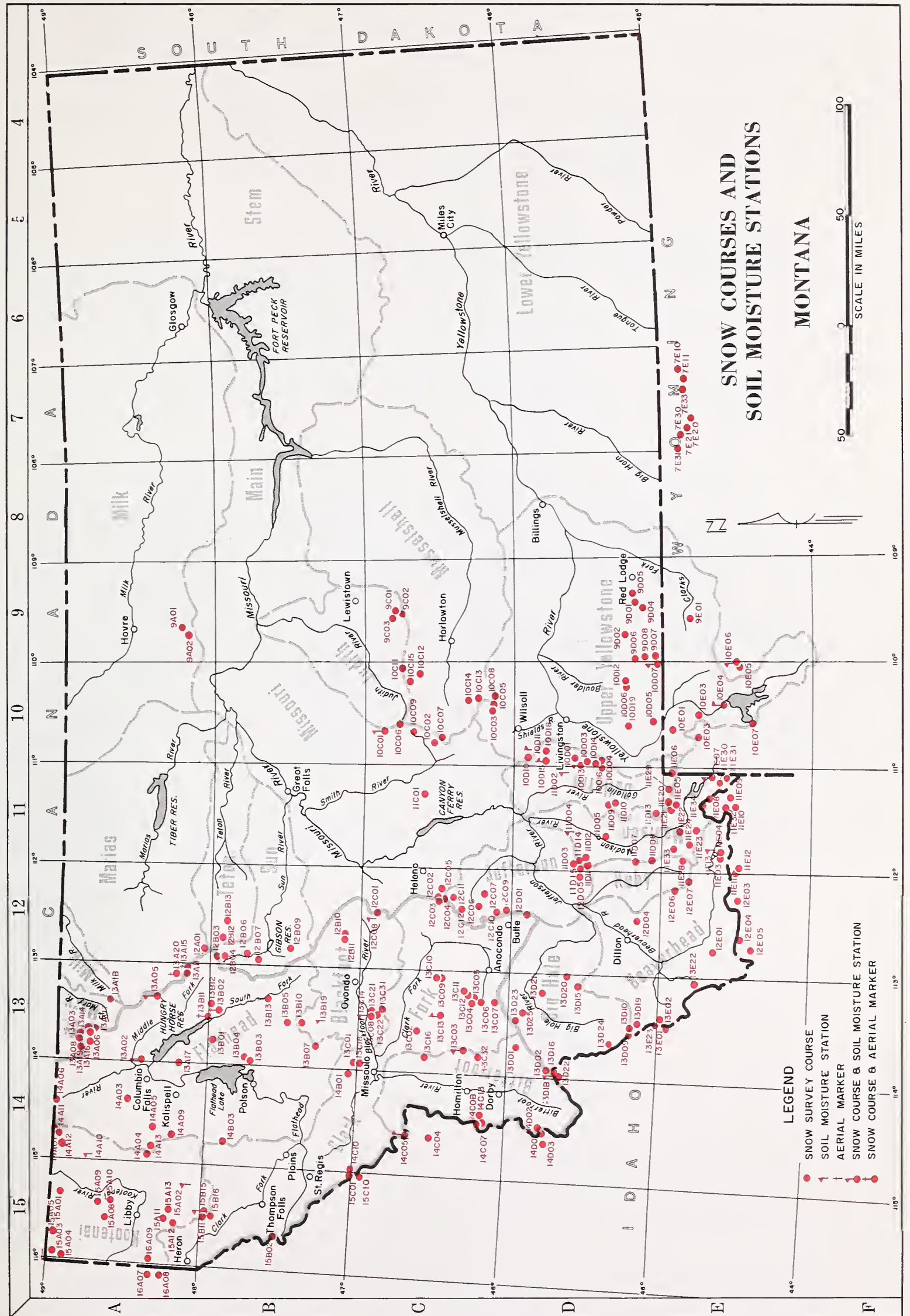
NORTHEAST ENTRANCE

No. 10D07

Elev. 7350

Drainage. Yellowstone





INDEX to MONTANA SNOW COURSES and SOIL MOISTURE STATIONS

SNOW COURSES

Drainage Basin & Course Name	Number	Elev.	Sec.	Top.	Range	Reco- rd Begin	Measuring Dates $\frac{1}{2}$	Notes, By $\frac{2}{2}$	Drainage Basin & Course Name	Number	Elev.	Sec.	Top.	Range	Reco- rd Begin	Measuring Dates $\frac{1}{2}$	Notes, By $\frac{2}{2}$
---------------------------------	--------	-------	------	------	-------	-------------------	----------------------------------	----------------------------	---------------------------------	--------	-------	------	------	-------	-------------------	----------------------------------	----------------------------

COLUMBIA RIVER BASIN

KOOTENAI RIVER	14001	778	31	3,4,5,5 $\frac{1}{2}$,6	1	11014	Stranham Lakes	1967	3,4,5	1,12	10005	7500	11	4N	10E	1961	3,4,5	1
	14002	33N	1689	2,3,4,5,5 $\frac{1}{2}$,6	1	11008	Clover Meadow	1963	3,4,5	1	10001	8900	2	8S	18E	1937	3,4,5,5 $\frac{1}{2}$,6	1
	14003	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10002	8150	19	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14004	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10003	8400	22	9S	15E	1935	3,4	2
	14005	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10004	9006	11	9S	14E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14006	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10005	8400	20	7S	12E	1961	1,2,3,4,5,5 $\frac{1}{2}$,6	1
	14007	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10006	7500	20	7S	12E	1961	1,2,3,4,5,5 $\frac{1}{2}$,6	1
	14008	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10007	7500	20	7S	12E	1961	1,2,3,4,5,5 $\frac{1}{2}$,6	1
	14009	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10008	7500	20	7S	12E	1961	1,2,3,4,5,5 $\frac{1}{2}$,6	1
	14010	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	12607	Divide	1963	3,4,5	1	10009	7500	20	7S	12E	1961	1,2,3,4,5,5 $\frac{1}{2}$,6	1
BIG HOLF RIVER	14011	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10012	8800	16	7S	12E	1961	3,4,5	1
	14012	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10013	8800	16	7S	12E	1961	3,4,5	1
	14013	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10014	8800	16	7S	12E	1961	3,4,5	1
	14014	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10015	8800	16	7S	12E	1961	3,4,5	1
	14015	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10016	8800	16	7S	12E	1961	3,4,5	1
	14016	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10017	8800	16	7S	12E	1961	3,4,5	1
	14017	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10018	8800	16	7S	12E	1961	3,4,5	1
	14018	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10019	8800	16	7S	12E	1961	3,4,5	1
	14019	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10020	8800	16	7S	12E	1961	3,4,5	1
	14020	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13020	Amundsee Lake	1963	3,4,5	1	10021	8800	16	7S	12E	1961	3,4,5	1
JEFFERSON RIVER	14021	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10023	6500	10	4N	10E	1938	3,4,5	1
	14022	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10024	6500	10	4N	10E	1938	3,4,5	1
	14023	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10025	6500	10	4N	10E	1938	3,4,5	1
	14024	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10026	6500	10	4N	10E	1938	3,4,5	1
	14025	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10027	6500	10	4N	10E	1938	3,4,5	1
	14026	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10028	6500	10	4N	10E	1938	3,4,5	1
	14027	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10029	6500	10	4N	10E	1938	3,4,5	1
	14028	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10030	6500	10	4N	10E	1938	3,4,5	1
	14029	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10031	6500	10	4N	10E	1938	3,4,5	1
	14030	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13021	Darkhorn Lake	1963	3,4,5	1	10032	6500	10	4N	10E	1938	3,4,5	1
MADISON RIVER	14031	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10033	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14032	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10034	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14033	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10035	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14034	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10036	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14035	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10037	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14036	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10038	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14037	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10039	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14038	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10040	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14039	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10041	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
	14040	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13022	Saddle Creek	1967	3,4,5	1	10042	8850	10	8S	18E	1961	3,4,5,5 $\frac{1}{2}$,6	1
CLARK FORK RIVER	14041	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10043	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14042	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10044	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14043	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10045	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14044	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10046	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14045	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10047	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14046	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10048	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14047	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10049	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14048	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10050	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14049	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10051	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14050	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13023	Slag-A-Melt Lake	1968	3,4,5	1	10052	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
BEAVERHEAD RIVER	14051	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10053	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14052	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10054	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14053	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10055	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14054	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10056	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14055	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10057	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14056	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10058	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14057	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10059	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14058	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10060	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14059	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10061	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14060	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13024	Slag-A-Melt Lake	1968	3,4,5	1	10062	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
ST. MARY RIVER BASIN	14061	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10063	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14062	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10064	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14063	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10065	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14064	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10066	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14065	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10067	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14066	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10068	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14067	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10069	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14068	33W	976	3,4,5,5 $\frac{1}{2}$,6	1	13025	Slag-A-Melt Lake	1968	3,4,5	1	10070	8700	18	9S	15E	1966	3,4,5,5 $\frac{1}{2}$,6	1
	14069	33W	976	3,4,5,5 $\frac{1$														

Agencies and Organizations Cooperating in Montana Snow Surveys

U. S. Forest Service
Region I, Missoula, Montana
Montana Forests and Ranger
Districts

U. S. Geological Survey
Helena, Montana
Portland, Oregon

U. S. Army Corps of Engineers
Portland, Oregon
Seattle, Washington
Walla Walla, Washington
Omaha, Nebraska

U. S. Indian Irrigation Service
St. Ignatius, Montana

U. S. Weather Bureau
Helena, Montana
Portland, Oregon
Kansas City, Missouri

U. S. Bureau of Sports Fisheries
and Wildlife
Red Rock Lakes Refuge
Monida, Montana

U. S. Bureau of Reclamation
Billings, Montana
Boise, Idaho

U. S. Bonneville Power Administration
Portland, Oregon

U. S. Soil Conservation Service
Montana, Wyoming, Idaho

Soil and Water Conservation Districts
Montana Counties

U. S. National Park Service
Yellowstone National Park
Glacier National Park

Montana Power Company
Butte, Montana

Montana Water Resources Board
Helena, Montana

North Montana Branch Station
Agricultural Experiment Station
Havre, Montana

Montana State University
Agricultural Experiment Station
Bozeman, Montana

University of Montana
School of Forestry
Missoula, Montana

Water Rights Branch, Dept. of
Lands and Forests
Victoria, British Columbia

Department of Energy, Mines and
Resources
Calgary, Alberta

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

P. O. Box 98
BOZEMAN, MONTANA 59715

OFFICIAL BUSINESS



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE

FIRST CLASS MAIL

USDA - NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORD
BELTSVILLE, MD. 20705

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*